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TRANSMITTAL

TO: Kristin Higgins Vermont Agency of Transportation	DATE	PROJECT NO.
	7/22/2013	Jamaica ER-BRF 015-1 (23)

XX

WE ENCLOSE THE FOLLOWING:

UNDER SEPARATE COVER WE ARE SENDING THE FOLLOWING

COPIES	NUMBER	DESCRIPTION	CODE
1		G1 & G7 Lateral Stability due to Flange Width NCR	H

CODE:

A FOR INITIAL APPROVAL

B FOR FINAL APPROVAL

C APPROVED AS NOTED-RESUBMISSION REQUIRED

D APPROVED AS NOTED-RESUBMISSION NOT REQUIRED

E DISAPPROVED-RESUBMIT

F QUOTATION REQUESTED

G APPROVED

H FOR APPROVAL

I AS REQUESTED OR REQUIRED

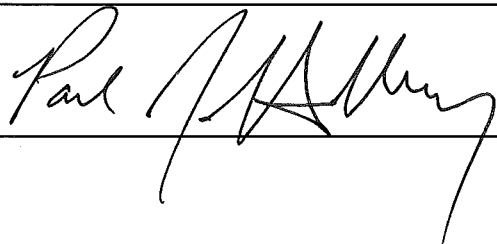
J FOR USE IN ERECTION

K LETTER FOLLOWS

L FOR FIELD CHECK

M FOR YOUR USE

BY:



Girder G1 & G7 Constructability Computations
For
VT Rte 30 over Ball Mountain Brook
in
Jamaica, Vermont

CEE 053-br-13



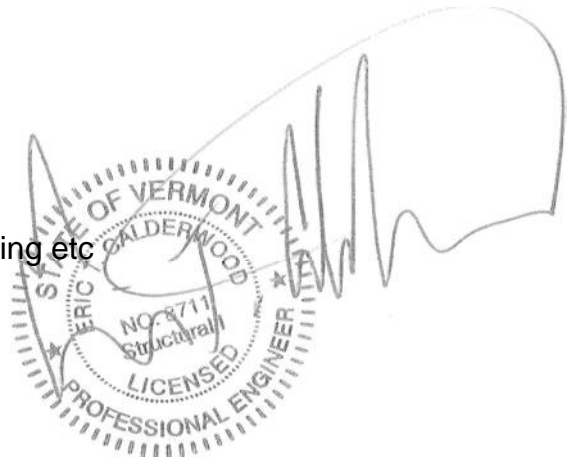
Prepared for:

Structal

By:

Calderwood Engineering etc

July 22nd, 2013



Cover Photo: Vt Rte 30 over Ball Mtn Brook
Courtesy of Miller Construction & VTrans



Structal
Attn: John Hand
386 River Road
Claremont, New Hampshire
03743

Date: July 21st, 2013

RE: Constructability Chk of G7 & G1 for Jamaica Vermont Rte 30 over Ball Mtn Brook

To whom it may concern,

This Letter is being written to serve as an executive summary for this calculation package, it contains a brief explanation of the analysis and assumptions made, as well as Calderwood Engineering's recommendations for this bridge.

According to Non Conformance Reports, hereinafter NCR, Girder G1 was fabricated with flanges 1/8" narrower than design plans and shop detail plans call for. Also according to NCR, Girder G7 was fabricated with a short section of top flange approximately 5/16" too narrow. These non-conformances were apparently not recognized until the final inspection. Girders have since been erected in the field.

Calculations were provided to Calderwood Engineering by Structal showing section properties of the girders as fabricated. These calculations show the use of a top flange of 1.25" thickness & a bottom flange of 2.25" thickness for each of the girders which we feel is in error. If in fact girder G1 was fabricated with thicker flanges than the design plans indicate then the following calculations are mute, however it would be prudent at that point to revisit bottom of slab elevations prior to forming the deck because the girders will be significantly stiffer than anticipated at design. That said Calderwood Engineering anticipates those computations were performed rapidly and simply wrong flange thicknesses were chosen in reality the ratio of moment of inertia to moment of inertia should have been 31,381.08/31,548.97 for G1 which is still ~ 0.994.

Calderwood Engineering developed a RISA 3d model of the girders, for this model the properties of Girder G7 were assumed to be compromised for it's full length whereas it is in reality only compromised at the field splice location. Loads were added to represent the dead load self weight of the steel and the fluid load of the concrete deck. The unit weight for concrete used was 150 pcf. Additionally in order to conservatively represent construction loading an additional load of 50 psf was added to the deck area, and factored as a live load. Resulting flexural moments were then compared to hand calculations of the capacity of the girders. A lateral flange bending stress was added to resist the overhang forming and fluid load. The lateral flange bending stress is relatively small which is expected due to the very small overhangs, and the close diaphragm spacing. The stresses anticipated within the steel due to the deck placement are within acceptable parameters per AASHTO LRFD Bridge Design Specifications section 6.10.3 & referenced sections. Constructability was checked at both the Strength I and the Strength IV limit states. The tension flange for Girder G1 was also checked, and found to be within acceptable parameters. Because the concrete deck will act as a giant diaphragm and will become a huge component of the compression flange and because the deviation in width is in such an isolated



location on Girder G7 not adjacent to the location of Maximum moment we do not anticipate a significant loss of capacity to the bridge at its strength limit state due to Girder G7. Because Girder G1 is the lightest loaded girder and rely's heavily on all the other girders to support it's loads, and because the flange width deviation is so small we do not anticipate a significant deviation from the load carrying capacity of the bridge due to Girder G1's flanges.

It is Calderwood Engineering's professional opinion that the girders should be left in place as is and that no further remedy is required and the bridge will perform as originally intended. That said, if VTrans has concerns regarding the load rating and the capacity of the bridge in service, perhaps it would be sensible to consider shoring either Girder G7 or also Girder G1 during the deck placement. Although it is not recommended to shore the girders, should that be the desired option then new bottom of slab elevations should be calculated, reflecting the shoring, also it should be noted on as built plans and perhaps on the load rating that the girders were shored during construction of the deck, such that future design engineers and maintenance operations will consider that.

Should you have any questions or concerns regarding our analysis or recommendations, please do not hesitate to contact us directly.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Eric T. Calderwood", written over a large, empty rectangular box.

Eric T. Calderwood, P.E.

Non-Composite Section Properties Girders

G1	Element	Width	Depth	A	y	Ay	A(y-ybar) ²	Io	Ix	Iy
	Top flange	19.875	1.000	19.875	0.5	9.9375	13764.77991	1.65925	13766.44	1472.550415 in ⁴
	Web	0.500	48.000	24	25	600	79.20769003	4608	4687.21	
	Bottom Flange	19.875	1.250	24.84375	49.625	1232.871	12824.20447	3.234863281	4687.21	
	Sum			68.71875		1842.809			31351.08 in ⁴	
	Y _{bar} =			26.82 in			1.1702E+03 in ³			
	Y _{ce} =			24.68 in			1.2713E+03 in ³			5.44 in (assumes top flange is compression flange)
						S _{xx} =				
						S _{yy} =				

Non-Composite Section Properties Girders

G2-G4	Element	Width	Depth	A	y	Ay	A(y-ybar) ²	Io	Ix	Iy
	Top flange	20.000	1.000	20	0.5	10	13851.35088	1.680666667	13853.02	1500.5 in ⁴
	Web	0.500	48.000	24	25	600	79.20769003	4608	4687.21	
	Bottom Flange	20.000	1.250	25	49.625	1240.625	13005.49877	3.255208333	13008.74	
	Sum			69		1850.625			31548.97 in ⁴	
	Y _{bar} =			26.82 in			1.1769E+03 in ³			
	Y _{ce} =			24.68 in			1.2764E+03 in ³			5.48 in (assumes top flange is compression flange)
						S _{xx} =				
						S _{yy} =				

Non-Composite Section Properties Girders

G5-G6	Element	Width	Depth	A	y	Ay	A(y-ybar) ²	Io	Ix	Iy
	Top flange	20.000	1.250	25	0.625	15.625	17150.09988	3.255208333	17153.36	2167.166667 in ⁴
	Web	0.500	48.000	24	25.25	606	58.9075216	4608	4686.91	
	Bottom Flange	20.000	2.000	40	50.25	2010	21984.82313	13.33333333	21978.18	
	Sum			89		2631.625			43796.42 in ⁴	
	Y _{bar} =			28.57 in			1.4812E+03 in ³			
	Y _{ce} =			21.93 in			1.9971E+03 in ³			5.51 in (assumes top flange is compression flange)
						S _{xx} =				
						S _{yy} =				

Non-Composite Section Properties Girders

G7	Element	Width	Depth	A	y	Ay	A(y-ybar) ²	Io	Ix	Iy
	Top flange	19.688	1.250	24.609375	0.625	15.38089	16882.12965	3.204345703	16885.33	2295.378006 in ⁴
	Web	0.500	48.000	24	25.25	606	58.9075216	4608	4686.91	
	Bottom Flange	20.000	2.250	45	50.375	2266.875	24674.75402	18.984375	24683.74	
	Sum			93.609375		2888.256			46545.98 in ⁴	
	Y _{bar} =			30.85 in			1.5088E+03 in ³			
	Y _{ce} =			20.65 in			2.2549E+03 in ³			5.41 in (assumes top flange is compression flange)
						S _{xx} =				
						S _{yy} =				

MODELED FOR LENGTH IS @
FULL GIRDER DISCREPANCY ONLY
ALTHOUGH LOCATION
SPACE



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JOB 053-BR-13 JAMAICA

SHEET NO. 2 OF 16

CALCULATED BY ETZ DATE 7/13

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SCALE

CONCRETE DECK FLUID LOAD

$$= 8\frac{1}{2}'' * \frac{1}{12}''/\text{FT} * 150 \text{ PCF} * 6.25 \text{ ft} = 664.06 \text{ lbs/LF}$$

(INTERIOR GIRDERS)

$$= 8.5 \text{ IN}/12 \text{ IN}/\text{FT} * 150 \text{ PCF} * \frac{6.25'}{2} + 1' * 150 \text{ PCF} * 1.75' = 595 \text{ lbs (EXT.)}$$

USE 670 PLF

USE 600 PLF (EXT.)

SELF WEIGHT OF STEEL (INCL. 10% ADPL FOR WELDS & CONN PL)

GIRDER G1 =

$$1.10 * 68.72 \text{ IN}^2 * \frac{1}{144} \text{ IN}^2/\text{FT}^2 * 490 \text{ PCF} = 257.2 \text{ PLF}$$

USE 260 PLF

GIRDERS G2 THRU G4 =

$$1.1 * 69.00 \text{ IN}^2 * \frac{1}{144} \text{ IN}^2/\text{FT}^2 * 490 \text{ PCF} = 258.27 \text{ PLF}$$

USE 260 PLF

GIRDERS G5 - G6 =

$$1.1 * 89.00 \text{ IN}^2 * \frac{1}{144} \text{ IN}^2/\text{FT}^2 * 490 \text{ PCF} = 333 \text{ PLF}$$

USE 340 PLF

GIRDER G7 =

$$1.1 * 93.6094 \text{ IN}^2 * \frac{1}{144} \text{ IN}^2/\text{FT}^2 * 490 \text{ PCF} = 350.39 \text{ PLF}$$

USE 360 PLF



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WEIGHT OF DIAPHRAGMS @ EA
NODE (INTERIOR)

$$= 1.10 * 135 \text{ PLF} * 6.25 \text{ ft} = 928.13 \text{ lbs}$$

USE 1000 lbs

WEIGHT OF DIAPHRAGMS @ EA
EXTERIOR NODE = 500 lbs

TOTAL NCDC LOAD (UNIFORM)

$$G1 = 600 \text{ PLF} + 260 \text{ PLF} = 860 \text{ lbs/LF}$$

$$G2 = 670 \text{ PLF} + 260 \text{ PLF} = 930 \text{ lbs/LF}$$

$$G3 = 670 \text{ PLF} + 260 \text{ PLF} = 930 \text{ lbs/LF}$$

$$G4 = 670 \text{ PLF} + 260 \text{ PLF} = 930 \text{ lbs/LF}$$

$$G5 = 670 \text{ PLF} + 340 \text{ PLF} = 1010 \text{ PLF}$$

$$G6 = 670 \text{ PLF} + 340 \text{ PLF} = 1010 \text{ PLF}$$

$$G7 = 360 \text{ PLF} + 600 \text{ PLF} = 960 \text{ PLF}$$

(ADD DIAPHRAGMS AS POINT LOADS)



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MOMENT INDUCED BY OVERHANG
BRACKETS ON FASCIA GIRDERS

$$= 1.75' * 1' * 150 \text{ PCF} * 1.75 \text{ SE}/2 = 229.69 \text{ lbs-SE/ft}$$

USE 250 lb-SE / FT

(0.25 K-FT/FT)



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JOB 053-BR-13 JAMAICA

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USE 50 PSF LIVE LOAD DURING DECK
PLACEMENT

(FACTOR AS LIVE LOAD)

INTERIOR GIRDERS

$$= 50 \text{ PSF} \times 6.25 \text{ ft} = 312.50 \text{ PLF} \quad (\text{USE } 320 \text{ PLF})$$

EXT. GIRDERS

$$50 \text{ PSF} \times \left(\frac{6.25 \text{ ft}}{2} + 1.75 \text{ ft} \right) = 243.75 \text{ PLF}$$

(USE 250 PLF)



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JOB 053-BR-13 JAMAICA
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SUPPORT O.H. W/ LATERAL FLANGE
BENDING BETWEEN DIAPHRAGMS

LATERAL LOAD CARRIED BY TOP
& BTM FLANGES OF GIRDER G7
SIMULTANEOUS W/ GRAVITY LOADS

$$= (12 \text{ in/ft}) 0.250 \text{ K-FT/FT} / (2.25 \text{ in} * \frac{1}{2} + 48 \text{ in} + 1.25 \text{ in} / 2)$$

$$= 0.0596 \text{ K/LF ALONG TOP FLANGE \& BTM FLANGE}$$

(USE 0.06 K/LF) (FOR G7)

(UNFACTORED)

FOR G1 COUPLE HAS A SLIGHTLY
SHORTER MOMENT ARM

∴

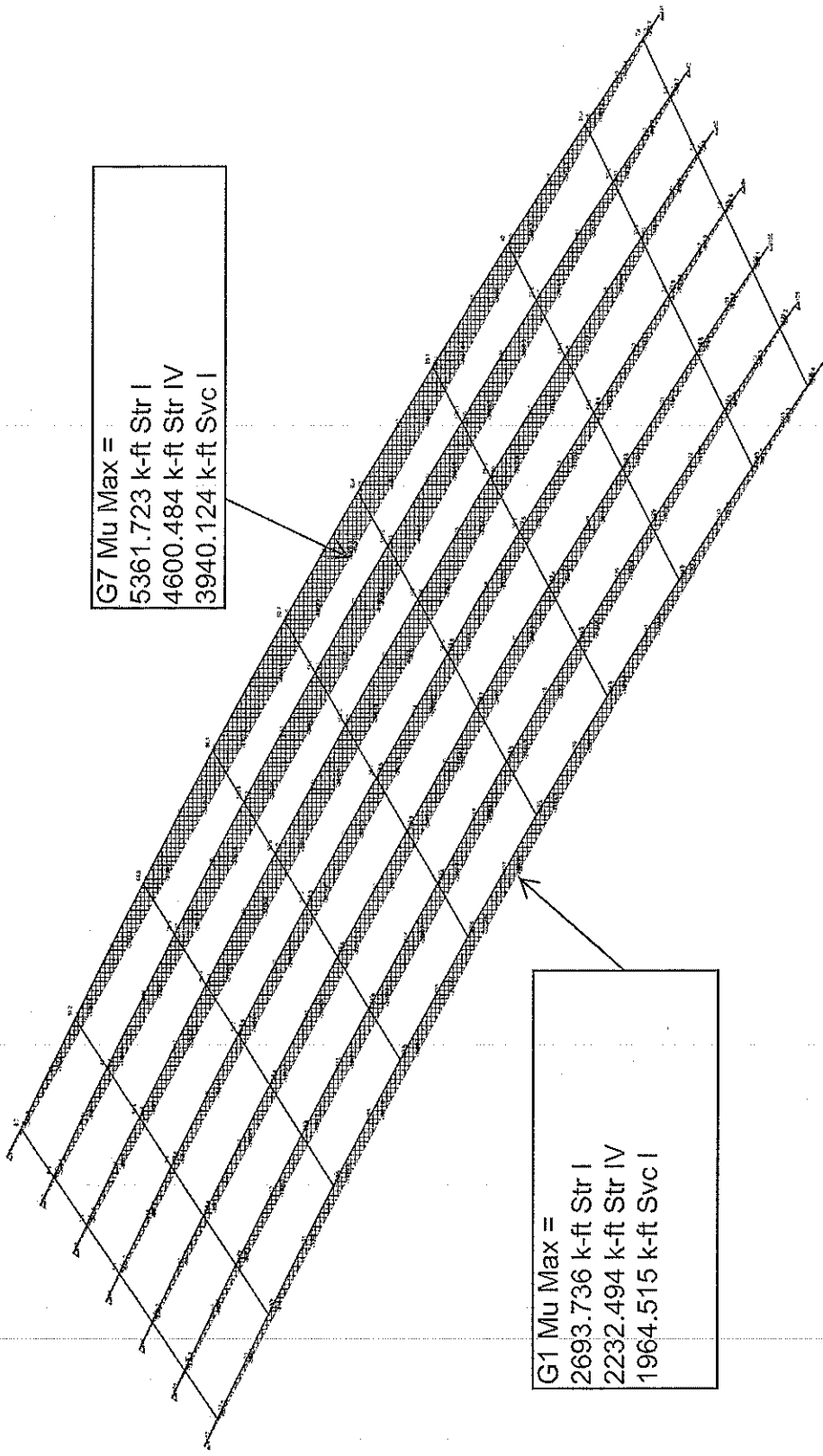
LATERAL FORCE IN FLANGES TO
SUPPORT O.H.

$$= (12 \text{ in/ft} * 0.25 \text{ K-FT/FT}) / (1.25 \text{ in} * \frac{1}{2} + 48 \text{ in} + 1 \text{ in} * \frac{1}{2})$$

$$= 0.0611 \text{ K/LF ALONG TOP \& BTM FLANGES}$$

(USE 0.07 K/LF)

(UNFACTORED)



Calderwood Engineering

Eric Calderwood

053-br-12 ER-BRF 015-1(23)

SK - 4

July 21, 2013 at 4:09 PM

z_Bridge_Jamaica Structural R3D

Jamaica Vermont
Str IV Moment Diagram Str I Diagram Similar



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LATERAL FLANGE BENDING MOMENTS
IN G7

W/ DIAPHRAGM SPACING = 15 ft

$$= \frac{w l^2}{10}$$

$$= \left[0.06 \text{ K/LF} * 15 \text{ ft}^2 \right] / 10 = 1.35 \text{ K-FT}$$

$$= 16.2 \text{ K-IN} \quad (\text{MAX @ DIAPHRAGM LOCATIONS})$$

LATERAL FLANGE BENDING MOMENTS
IN G1

$$= \left[0.07 \text{ K/LF} * 14.22 \text{ ft}^2 \right] / 10 = 1.42 \text{ K-FT}$$

$$= 17.0 \text{ K-IN} \quad (\text{MAX @ DIAPHRAGM LOCATIONS})$$

@ STR. I

$$G7 \quad \text{LATERAL} = 1.25 * 16.2 \text{ K-IN} = 20.25 \text{ K-IN}$$

$$G1 \quad \text{LATERAL} = 1.25 * 17.0 \text{ K-IN} = 21.25 \text{ K-IN}$$

@ STR. IV

$$G7 \quad \text{LATERAL} = 1.5 * 16.2 = 24.30 \text{ K-IN}$$

$$G1 \quad \text{LATERAL} = 1.5 * 17.0 = 25.50 \text{ K-IN}$$



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✓ WEB SLENDERNESS

6.10.6.2.3

✓ \bar{Y} FROM PG. 1 FOR G7

$$\frac{2 D_c}{t_w} = \frac{2 (30.85 \text{ in} - 1.25 \text{ in})}{0.5} = 118.4$$

$$\text{SLENDERNESS LIMIT} = 5.7 \sqrt{\frac{29000}{50 \text{ ksi}}} = 137.27$$

∴ WEB IS NON-SLENDER FOR G7

✓ G1

$$\frac{2 (26.82 \text{ in} - 1.0 \text{ in})}{0.5} = 103.28 \leq 137.27 \therefore$$

WEB FOR G1 IS ALSO NON-SLENDER

✓ CONSTRUCTABILITY 6.10.3.2 FLEXURE

$$\text{STR I } S_1 \text{ G7} = 20.25 \text{ K-IN} \sqrt{\left[(19.6875 \text{ in})^2 * 1.25 \text{ in} / 6 \right]}$$

$$S_2 = 0.251 \text{ ksi (G7 STR. I)}$$

$$S_2 = 0.251 * \frac{1.5}{1.25} = 0.301 \text{ ksi (G7 STR IV)}$$

$$S_1 = 0.251 \text{ ksi} * \frac{1}{1.25} = 0.201 \text{ ksi (SVC. I)}$$



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✓ S_1 G1

$$S_r = 21.25 \text{ K-IN} / \left[(19.875)^2 * 1.0 / 6 \right] = 0.323 \text{ KSI}$$

$$S_r = 0.323 \text{ KSI (FOR STR. I G1 } S_1)$$

$$S_r = 0.323 * \frac{1.5}{1.25} = 0.387 \text{ KSI (FOR STR. IV G1)}$$

$$S_r = 0.323 / 1.25 = 0.258 \text{ KSI (FOR S.V. I G1)}$$

$$S_{bu} \left\{ \begin{array}{l} S_{bu} = \frac{\text{STR. IV G7 (MEMBER M70 \& M71)} \\ 4,600.484 \text{ K-FT} * 12 \text{ IN/FT} \\ 1508.6 \text{ IN}^3 \end{array} \right. = 36.59 \text{ KSI}$$

$$G1 \left\{ \begin{array}{l} S_{bu} = \frac{\text{STR. I G7 (MEMBER M70 \& M71)} \\ 5361.723 \text{ K-FT} * 12 \text{ IN/FT} \\ 1508.6 \text{ IN}^3 \end{array} \right. = 42.65 \text{ KSI}$$

$$S_{bu} = \frac{\text{S.V. I} \\ 3940.124 \text{ K-FT} * 12 \text{ IN/FT} \\ 1508.6 \text{ IN}^3} = 31.39 \text{ KSI}$$

$$S_{bu} \left\{ \begin{array}{l} S_{bu} = \frac{\text{STR. IV} \\ 2232.494 \text{ K-FT} * 12 \text{ IN/FT} \\ 1170.2 \text{ IN}^3 \end{array} \right. = 22.89 \text{ KSI}$$

$$G1 \left\{ \begin{array}{l} S_{bu} = \frac{\text{STR. I} \\ 2693.74 \text{ K-FT} * 12 \text{ IN/FT} \\ 1170.2 \text{ IN}^3 \end{array} \right. = 27.623 \text{ KSI}$$

$$S_{bu} = \frac{1946.52 \text{ K-FT} * 12 \text{ IN/FT}}{1170.2 \text{ IN}^3} = 19.96 \text{ KSI}$$



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FOR DISCRETELY BRACED FLANGES IN
 COMPRESSION 6.10.3.2 FLEXURE

$$S_{bu} + S_f \leq \phi_s R_h F_{yc}$$

&

$$S_{bu} + S_f/3 \leq \phi_s F_{nc}$$

&

$$S_{bu} \leq \phi_s F_{CRW}$$

ALL STEEL IS GR 50 W

$$R_h = 1.0 \quad (\text{NON-HYBRID}) \quad (6.10.1.10)$$

$$\phi_s = 1.0 \quad (6.5.4.2)$$

F_{nc} PER 6.10.8.2

✓ LOCAL BUCKLING

$$\lambda_s = \frac{19.875}{2(1.0)} \quad (\text{FOR } G1) = 9.938$$

$$\lambda_{PS} = 9.2 \quad \text{FOR } F_{yc} = 50 \text{ KSI} \quad \lambda_{PS} = 0.56 \sqrt{\frac{29000}{35 \text{ KSI}}} = 16.1196$$

∴ FOR LOCAL BUCKLING

$$G1 \quad F_{nc} \text{ IS LIMITED TO } \left[1 - \left(1 - \frac{35}{50} \right) \left(\frac{9.938 - 9.20}{16.1196 - 9.20} \right) \right] R_b R_h F_{yc}$$

$$\frac{D}{t} = \frac{48.4}{0.5} = 96 \leq 150 \quad \therefore R_b = 1.0$$

(REF. 6.10.1.10.2 & 6.10.2.1)

$$G1 - F_{nc} (\text{LOCAL BUCKLING}) = 48.90 \text{ KSI} \quad (R_h = 1.0 \text{ NON-HYBRID})$$



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(LOCAL BUCKLING LIKELY DOES NOT GOVERN)
✓ LTB FOR GI (6.10.8.2.3)

$$L_p = 1.0 (r_t) \sqrt{E / F_{yc}} = 1.0 (5.44 \text{ in}) \sqrt{\frac{29000}{50 \text{ ksi}}} = 131.0 \text{ in}$$

$$L_r = \pi (r_t) \sqrt{E / F_{yr}} = 3.14159 (5.44 \text{ in}) \sqrt{\frac{29000}{35 \text{ ksi}}} = 491.94 \text{ in}$$

$$\therefore F_{nc} = C_b \left[1 - \left(1 - \frac{F_{yr}}{R_h F_{yc}} \right) \left(\frac{L_b - L_p}{L_r - L_p} \right) \right] R_b R_h F_{yc}$$

$$\text{w/ } C_b = 1.0 \quad (\text{CONSERVATIVE})$$

$$R_h = 1.0 \quad R_b = 1.0 \quad L_b =$$

$$\text{GI } L_b = 14' - 2\frac{5}{8}" = 170.625 \text{ in}$$

$$\text{GI - } F_{nc} = 1.0 * \left[1 - \left(1 - \frac{35 \text{ ksi}}{1.0 (50 \text{ ksi})} \right) \left(\frac{170.625 \text{ in} - 131 \text{ in}}{491.94 \text{ in} - 131 \text{ in}} \right) \right] 1.0 (1.0) (50 \text{ ksi})$$

$$\text{GI - } F_{nc} = 48.35 \text{ ksi} \leq 48.4 \text{ ksi} \quad \therefore \text{GOVERNS}$$

$$F_{nc} = 48.35 \text{ ksi FOR GI}$$



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✓ F_{nc} FOR GIRDER G7

✓ LOCAL BUCKLING (6.10.8.2.2)

$$\lambda_s = \frac{19.6875 \text{ in}}{2(1.25 \text{ in})} = 7.875 \leq \lambda_{ps}$$

$$\therefore F_{nc \text{ LOCAL BUCKLING}} = F_{nc} = 50 \text{ ksi}$$

✓ LTB (6.10.8.2.3)

$$L_b = 15 \text{ St} * 12 \text{ in/ft} = 180 \text{ in}$$

$$L_p = 1.0 (r_t) \sqrt{E/F_{yc}} = 1.0 (5.41) \sqrt{\frac{29000 \text{ ksi}}{50 \text{ ksi}}} = 130.29 \text{ in}$$

$$L_r = 1.7 (r_t) \sqrt{E/F_{yr}} = 3.14159 (5.41) \sqrt{\frac{29000 \text{ ksi}}{35 \text{ ksi}}} = 489.228 \text{ in}$$

$$G7 - F_{nc} = 1.0 \left[1 - \left(1 - \frac{35 \text{ ksi}}{50 \text{ ksi}(1.0)} \right) \left(\frac{180 \text{ in} - 130.29 \text{ in}}{489.228 \text{ in} - 130.29 \text{ in}} \right) (1.0)(1.0)(50 \text{ ksi}) \right]$$

$$F_{nc \text{ G7}} = \underline{47.23 \text{ ksi}} \rightarrow \text{GOVERNS FOR G7}$$

F_{nc}



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JOB 053-BR-13 JAMAICA
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✓ F_{CRW} (6.10.1.9)

$$F_{CRW} = \frac{0.9 E K}{\left(D/k_w\right)^2} \leq R_h F_{yc} \leq F_{crw} / 0.7$$

$$w/k = \frac{9}{\left(D_c/D\right)^2}$$

FOR GIRDER G1 $D_c = 26.82 \text{ in} - 1.0 \text{ in} = 25.82 \text{ in}$

FOR GIRDER G7 $D_c = 30.85 \text{ in} - 1.25 \text{ in} = 28.75 \text{ in}$

$$k = \frac{9}{\left(25.82/48\right)^2} = 31.104 \text{ (FOR G1)}$$

$$k = \frac{9}{\left(28.75/48\right)^2} = 25.09 \text{ (FOR G7)}$$

$$F_{CRW} = \frac{0.9 (29,000) (25.09)}{\left(48/0.5\right)^2} \geq 7.06 \text{ ksi} \geq 1.0 (50 \text{ ksi})$$

∴ USE $F_{CRW} = 50 \text{ ksi}$ FOR BOTH
G7 & G1



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JOB 053-BR-13 JAMAICA
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IN SUMMATION FOR COMPRESSION FLANGE

$$G7 \quad F_{bu} + F_r = 42.65 \text{ ksi} + 0.251 \text{ ksi} = 42.9 \text{ ksi} \quad (\text{STR I})$$

$$F_{bu} + F_r = 36.59 \text{ ksi} + 0.301 \text{ ksi} = 36.89 \text{ ksi} \quad (\text{STR IV})$$

STR I GOVERNS:

$$F_{bu} = 42.65 \text{ ksi} \quad (\text{STR I})$$

$$F_{bu} + \frac{1}{3} F_r = 42.65 \text{ ksi} + \frac{1}{3} \times 0.251 \text{ ksi} = 42.73 \text{ ksi}$$

STR. I GOVERNS FOR G1 ALSO BY OBSERVATION

$$G1 - F_{bu} + F_r = 27.623 \text{ ksi} + 0.323 \text{ ksi} = 27.95 \text{ ksi}$$

$$F_{bu} = 27.623 \text{ ksi}$$

$$F_{bu} + \frac{1}{3} F_r = 27.623 \text{ ksi} + \frac{0.323 \text{ ksi}}{3} = 27.7307 \text{ ksi}$$

$$\phi_s R_h F_y = 50 \text{ ksi} \quad \text{FOR } G1 \& G7 > 42.9 \text{ ksi} \& 27.95 \text{ ksi} \\ \therefore \text{OK}$$

$$\phi_s F_{nc} = 1.0 (47.23 \text{ ksi}) \quad \text{FOR } G7 = 47.23 \text{ ksi} \quad \text{FOR } G7 \\ \geq 42.73 \text{ ksi} \quad \therefore \text{OK}$$

$$\phi_s F_{nc} = 1.0 (48.35 \text{ ksi}) \quad \text{FOR } G1 = 48.35 \text{ ksi} \quad \text{FOR } G1 \\ \geq 27.7307 \text{ ksi} \quad \therefore \text{OK}$$

$$\phi_s F_{crw} = 50 \text{ ksi} \quad F_{bu} \leq F_{crw} \phi_s \quad \text{FOR } G1 \& G7 \text{ BY INSPECTION}$$



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JOB 053-BR-13

SHEET NO. 16 OF 16

CALCULATED BY ETC DATE 7/2013

CHECKED BY DATE

SCALE

THE DECK CAN BE FULLY CONSTRUCTED
W/ OUT ANY ADVERSE IMPACT TO THE
COMPRESSION FLANGE

FOR G7 TENSION FLANGE IS UNAFFECTED

FOR G1 TENSION FLANGE IS LIGHTLY
LOADED (AS G1 IS LIGHTLY LOADED DUE
TO IT'S POSITION @ THE INSIDE OF THE
CURVE)

✓ 6.10.3.2.2 DISCRETELY BRALED
TENSION FLANGES FOR G1

$$S_{bu} + S_r \leq \phi_s R_h F_{yt} = 1.0 (1.0) 50 \text{ ksi}$$

$$S_{bu} = \frac{2693.736 \text{ k-FT} * 12 \text{ in/FT}}{1271.3 \text{ in}^3} = 25.43 \text{ ksi}$$

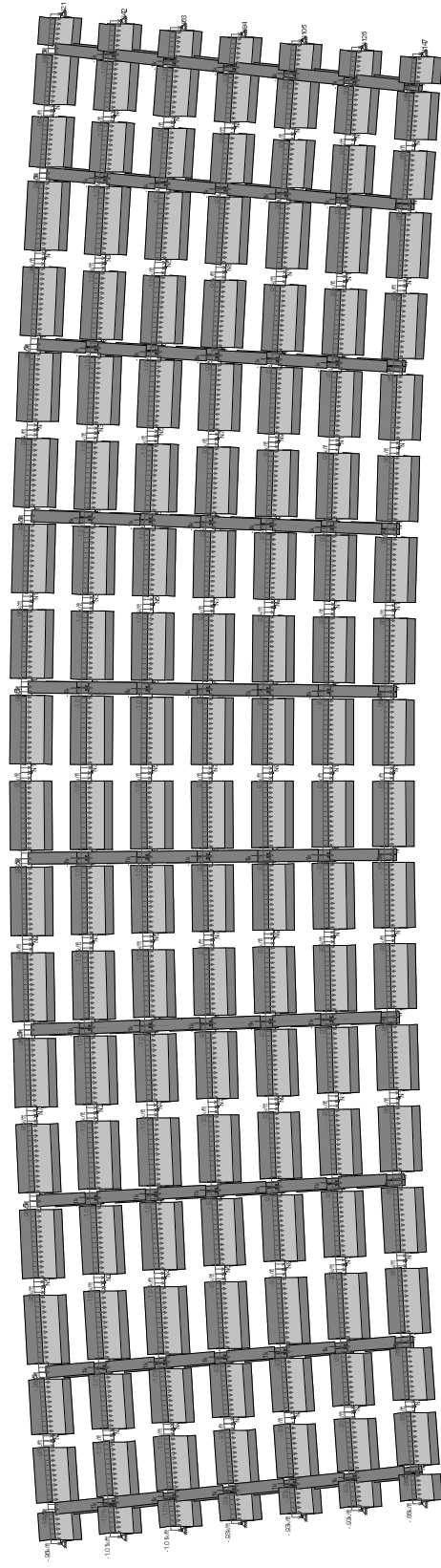
$$S_r = \frac{21.25 \text{ k-in}}{(19.875^2 * 1.25 / 6)} = 0.258 \text{ ksi}$$

$$S_{bu} + S_r = 25.43 \text{ ksi} + 0.258 \text{ ksi} =$$

$$25.685 \text{ ksi} < 50 \text{ ksi}$$

∴ G1

TENSION FLANGE OK.



Calderwood Engineering

Eric Calderwood

053-br-12 ER-BRF 015-1(23)

Jamaica Vermont

Loading Diagram - Nodes & members shown Isometric

SK - 2

July 21, 2013 at 2:19 PM

z_Bridge_Structural.R3D

JT. DEFL.
SVC. I W/O
50 PSF LIVE LOAD

Joint Deflections (By Combination)

NLCD
 DEFLECTION
 (STEEL + SLAB
 GIRDER G7)

	LC	Joint Label	X [in]	Y [in]	Z [in]	X Rotation [rad]	Y Rotation [rad]	Z Rotation [rad]
1	5	N1	0	0	0	-1.839e-3	0	-1.577e-2
2	5	N2	0	-582	0	-1.835e-3	0	-1.573e-2
3	5	N3	0	-1.733	0	-5.29e-3	0	-1.51e-2
4	5	N4	0	-2.845	0	-3.19e-3	0	-1.462e-2
5	5	N5	0	-4.148	0	-1.372e-2	0	-1.273e-2
6	5	N6	0	-5.313	0	-4.622e-3	0	-1.167e-2
7	5	N7	0	-6.313	0	-1.949e-2	0	-9.096e-3
8	5	N8	0	-7.112	0	-5.65e-3	0	-7.441e-3
9	5	N9	0	-7.698	0	-2.303e-2	0	-4.66e-3
10	5	N10	0	-8.044	0	-6.18e-3	0	-2.441e-3
11	5	N11	0	-8.153	0	-2.417e-2	0	1.718e-4
12	5	N12	0	-8.009	0	-6.16e-3	0	2.806e-3
13	5	N13	0	-7.63	0	-2.286e-2	0	4.99e-3
14	5	N14	0	-7.012	0	-5.592e-3	0	7.769e-3
15	5	N15	0	-6.185	0	-1.916e-2	0	9.382e-3
16	5	N16	0	-5.158	0	-4.533e-3	0	1.193e-2
17	5	N17	0	-3.973	0	-1.324e-2	0	1.294e-2
18	5	N18	0	-2.653	0	-3.075e-3	0	1.477e-2
19	5	N19	0	-1.633	0	-4.64e-3	0	1.52e-2
20	5	N20	0	-582	0	-1.833e-3	0	1.573e-2
21	5	N21	0	0	0	-1.837e-3	0	1.577e-2
22	5	N22	0	0	0	-1.762e-3	0	-1.505e-2
23	5	N23	0	-55	0	-1.758e-3	0	-1.5e-2
24	5	N24	0	-1.638	0	-5.768e-3	0	-1.435e-2
25	5	N25	0	-2.689	0	-3.082e-3	0	-1.394e-2
26	5	N26	0	-3.92	0	-1.553e-2	0	-1.197e-2
27	5	N27	0	-5.018	0	-4.482e-3	0	-1.111e-2
28	5	N28	0	-5.962	0	-2.208e-2	0	-8.509e-3
29	5	N29	0	-6.714	0	-5.491e-3	0	-7.074e-3
30	5	N30	0	-7.267	0	-2.607e-2	0	-4.346e-3
31	5	N31	0	-7.591	0	-6.014e-3	0	-2.319e-3
32	5	N32	0	-7.695	0	-2.736e-2	0	1.6e-4
33	5	N33	0	-7.559	0	-5.995e-3	0	2.666e-3
34	5	N34	0	-7.203	0	-2.588e-2	0	4.654e-3
35	5	N35	0	-6.62	0	-5.435e-3	0	7.386e-3
36	5	N36	0	-5.841	0	-2.17e-2	0	8.78e-3
37	5	N37	0	-4.872	0	-4.394e-3	0	1.135e-2
38	5	N38	0	-3.754	0	-1.498e-2	0	1.218e-2
39	5	N39	0	-2.508	0	-2.971e-3	0	1.408e-2
40	5	N40	0	-1.544	0	-5.001e-3	0	1.445e-2
41	5	N41	0	-55	0	-1.757e-3	0	1.5e-2
42	5	N42	0	0	0	-1.761e-3	0	1.504e-2
43	5	N43	0	0	0	-1.685e-3	0	-1.432e-2
44	5	N44	0	-52	0	1.682e-3	0	-1.428e-2
45	5	N45	0	-1.546	0	-5.541e-3	0	-1.365e-2
46	5	N46	0	-2.537	0	-2.971e-3	0	-1.326e-2
47	5	N47	0	-3.698	0	-1.489e-2	0	-1.137e-2
48	5	N48	0	-4.733	0	-4.333e-3	0	-1.055e-2
49	5	N49	0	-5.622	0	-2.11e-2	0	-8.072e-3
50	5	N50	0	-6.329	0	-5.32e-3	0	-6.708e-3
51	5	N51	0	-6.849	0	-2.485e-2	0	-4.119e-3
52	5	N52	0	-7.154	0	-5.831e-3	0	-2.197e-3
53	5	N53	0	-7.252	0	-2.606e-2	0	1.515e-4
54	5	N54	0	-7.123	0	-5.812e-3	0	2.526e-3
55	5	N55	0	-6.789	0	-2.467e-2	0	4.411e-3
56	5	N56	0	-6.24	0	-5.265e-3	0	7.004e-3

Joint Deflections (By Combination) (Continued)

	LC	Joint Label	X [in]	Y [in]	Z [in]	X Rotation [rad]	Y Rotation [rad]	Z Rotation [rad]
57	5	N57	0	-5.508	0	-2.074e-2	0	8.329e-3
58	5	N58	0	-4.596	0	-4.248e-3	0	1.078e-2
59	5	N59	0	-3.542	0	-1.437e-2	0	1.157e-2
60	5	N60	0	-2.367	0	-2.863e-3	0	1.339e-2
61	5	N61	0	-1.457	0	-4.805e-3	0	1.375e-2
62	5	N62	0	-.519	0	-1.681e-3	0	1.428e-2
63	5	N63	0	0	0	-1.685e-3	0	1.432e-2
64	5	N64	0	0	0	-1.622e-3	0	-1.368e-2
65	5	N65	0	-.49	0	-1.619e-3	0	-1.365e-2
66	5	N66	0	-1.458	0	-8.959e-3	0	-1.274e-2
67	5	N67	0	-2.39	0	-2.896e-3	0	-1.266e-2
68	5	N68	0	-3.486	0	-2.668e-2	0	-1.007e-2
69	5	N69	0	-4.456	0	-4.241e-3	0	-1.005e-2
70	5	N70	0	-5.296	0	-3.786e-2	0	-6.952e-3
71	5	N71	0	-5.955	0	-5.212e-3	0	-6.376e-3
72	5	N72	0	-6.448	0	-4.454e-2	0	-3.494e-3
73	5	N73	0	-6.728	0	-5.715e-3	0	-2.087e-3
74	5	N74	0	-6.826	0	-4.667e-2	0	1.277e-4
75	5	N75	0	-6.7	0	-5.696e-3	0	2.398e-3
76	5	N76	0	-6.391	0	-4.422e-2	0	3.744e-3
77	5	N77	0	-5.872	0	-5.158e-3	0	6.658e-3
78	5	N78	0	-5.188	0	-3.723e-2	0	7.184e-3
79	5	N79	0	-4.327	0	-4.157e-3	0	1.027e-2
80	5	N80	0	-3.34	0	-2.573e-2	0	1.027e-2
81	5	N81	0	-2.23	0	-2.791e-3	0	1.279e-2
82	5	N82	0	-1.373	0	-7.486e-3	0	1.289e-2
83	5	N83	0	-.489	0	-1.618e-3	0	1.364e-2
84	5	N84	0	0	0	-1.622e-3	0	1.368e-2
85	5	N85	0	0	0	-1.563e-3	0	-1.295e-2
86	5	N86	0	-.46	0	-1.56e-3	0	-1.292e-2
87	5	N87	0	-1.368	0	-8.602e-3	0	-1.205e-2
88	5	N88	0	-2.243	0	-2.872e-3	0	-1.197e-2
89	5	N89	0	-3.271	0	-2.55e-2	0	-9.507e-3
90	5	N90	0	-4.179	0	-4.246e-3	0	-9.48e-3
91	5	N91	0	-4.965	0	-3.607e-2	0	-6.553e-3
92	5	N92	0	-5.582	0	-5.229e-3	0	-6.008e-3
93	5	N93	0	-6.043	0	-4.232e-2	0	-3.291e-3
94	5	N94	0	-6.305	0	-5.735e-3	0	-1.965e-3
95	5	N95	0	-6.396	0	-4.43e-2	0	1.202e-4
96	5	N96	0	-6.279	0	-5.716e-3	0	2.258e-3
97	5	N97	0	-5.99	0	-4.202e-2	0	3.526e-3
98	5	N98	0	-5.504	0	-5.174e-3	0	6.275e-3
99	5	N99	0	-4.865	0	-3.547e-2	0	6.772e-3
100	5	N100	0	-4.058	0	-4.161e-3	0	9.692e-3
101	5	N101	0	-3.133	0	-2.46e-2	0	9.699e-3
102	5	N102	0	-2.093	0	-2.764e-3	0	1.209e-2
103	5	N103	0	-1.289	0	-7.193e-3	0	1.22e-2
104	5	N104	0	-.459	0	-1.559e-3	0	1.291e-2
105	5	N105	0	0	0	-1.562e-3	0	1.295e-2
106	5	N106	0	0	0	-1.506e-3	0	-1.218e-2
107	5	N107	0	-.429	0	-1.503e-3	0	-1.215e-2
108	5	N108	0	-1.276	0	-8.212e-3	0	-1.132e-2
109	5	N109	0	-2.092	0	-2.87e-3	0	-1.125e-2
110	5	N110	0	-3.05	0	-2.424e-2	0	-8.924e-3
111	5	N111	0	-3.897	0	-4.295e-3	0	-8.896e-3
112	5	N112	0	-4.629	0	-3.423e-2	0	-6.143e-3
113	5	N113	0	-5.203	0	-5.307e-3	0	-5.632e-3

Joint Deflections (By Combination) (Continued)

LC	Joint Label	X [in]	Y [in]	Z [in]	X Rotation [rad]	Y Rotation [rad]	Z Rotation [rad]
114	5 N114	0	-5.633	0	-4.01e-2	0	-3.083e-3
115	5 N115	0	-5.877	0	-5.826e-3	0	-1.841e-3
116	5 N116	0	-5.961	0	-4.196e-2	0	1.125e-4
117	5 N117	0	-5.852	0	-5.807e-3	0	2.116e-3
118	5 N118	0	-5.583	0	-3.982e-2	0	3.303e-3
119	5 N119	0	-5.131	0	-5.251e-3	0	5.882e-3
120	5 N120	0	-4.536	0	-3.367e-2	0	6.349e-3
121	5 N121	0	-3.784	0	-4.207e-3	0	9.096e-3
122	5 N122	0	-2.922	0	-2.339e-2	0	9.105e-3
123	5 N123	0	-1.952	0	-2.756e-3	0	1.137e-2
124	5 N124	0	-1.202	0	-6.877e-3	0	1.147e-2
125	5 N125	0	-.429	0	-1.502e-3	0	1.215e-2
126	5 N126	0	0	0	-1.505e-3	0	1.218e-2
127	5 N127	0	0	0	-1.443e-3	0	-1.138e-2
128	5 N128	0	-.397	0	-1.44e-3	0	-1.135e-2
129	5 N129	0	-1.182	0	-7.772e-3	0	-1.057e-2
130	5 N130	0	-1.937	0	-2.853e-3	0	-1.049e-2
131	5 N131	0	-2.824	0	-2.288e-2	0	-8.321e-3
132	5 N132	0	-3.607	0	-4.329e-3	0	-8.293e-3
133	5 N133	0	-4.285	0	-3.229e-2	0	-5.722e-3
134	5 N134	0	-4.816	0	-5.374e-3	0	-5.245e-3
135	5 N135	0	-5.214	0	-3.781e-2	0	-2.87e-3
136	5 N136	0	-5.439	0	-5.909e-3	0	-1.713e-3
137	5 N137	0	-5.518	0	-3.955e-2	0	1.046e-4
138	5 N138	0	-5.416	0	-5.889e-3	0	1.969e-3
139	5 N139	0	-5.168	0	-3.755e-2	0	3.075e-3
140	5 N140	0	-4.75	0	-5.316e-3	0	5.478e-3
141	5 N141	0	-4.199	0	-3.177e-2	0	5.914e-3
142	5 N142	0	-3.504	0	-4.238e-3	0	8.479e-3
143	5 N143	0	-2.705	0	-2.207e-2	0	8.491e-3
144	5 N144	0	-1.807	0	-2.736e-3	0	1.061e-2
145	5 N145	0	-1.113	0	-6.523e-3	0	1.07e-2
146	5 N146	0	-.397	0	-1.439e-3	0	1.135e-2
147	5 N147	0	0	0	-1.442e-3	0	1.138e-2

TOTAL NCDC (SLAB + STEEL DEFL)
 GIRDER G1

STR I

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]	Footing
1	N1	Reaction	Reaction	Reaction				
2	N22	Reaction	Reaction	Reaction				
3	N43	Reaction	Reaction	Reaction				
4	N64	Reaction	Reaction	Reaction				
5	N85	Reaction	Reaction	Reaction				
6	N106	Reaction	Reaction	Reaction				
7	N127	Reaction	Reaction	Reaction				
8	N21	Reaction	Reaction	Reaction				
9	N42	Reaction	Reaction	Reaction				
10	N63	Reaction	Reaction	Reaction				
11	N84	Reaction	Reaction	Reaction				
12	N105	Reaction	Reaction	Reaction				
13	N126	Reaction	Reaction	Reaction				
14	N147	Reaction	Reaction	Reaction				

Member Section Forces (By Combination)

	LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
1	1	M1	1	0	1.401	0	-5.459	0	9.398
2			2	0	1.401	0	-5.459	0	7.21
3			3	0	1.401	0	-5.459	0	5.021
4			4	0	1.401	0	-5.459	0	2.833
5			5	0	1.401	0	-5.459	0	.644
6	1	M2	1	0	1.503	0	-5.477	0	9.187
7			2	0	1.503	0	-5.477	0	6.839
8			3	0	1.503	0	-5.477	0	4.491
9			4	0	1.503	0	-5.477	0	2.143
10			5	0	1.503	0	-5.477	0	-.206
11	1	M3	1	0	2.095	0	-4.743	0	8.139
12			2	0	2.095	0	-4.743	0	4.866
13			3	0	2.095	0	-4.743	0	1.592
14			4	0	2.095	0	-4.743	0	-1.682
15			5	0	2.095	0	-4.743	0	-4.956
16	1	M4	1	0	1.445	0	-5.597	0	.48
17			2	0	1.445	0	-5.597	0	-1.778
18			3	0	1.445	0	-5.597	0	-4.036
19			4	0	1.445	0	-5.597	0	-6.294
20			5	0	1.445	0	-5.597	0	-8.552
21	1	M5	1	0	.91	0	-5.926	0	-3.271
22			2	0	.91	0	-5.926	0	-4.692
23			3	0	.91	0	-5.926	0	-6.114
24			4	0	.91	0	-5.926	0	-7.536
25			5	0	.91	0	-5.926	0	-8.958
26	1	M6	1	0	.15	0	-6.255	0	-3.875
27			2	0	.15	0	-6.255	0	-4.11
28			3	0	.15	0	-6.255	0	-4.345
29			4	0	.15	0	-6.255	0	-4.58
30			5	0	.15	0	-6.255	0	-4.815
31	1	M7	1	0	5.097	0	-5.195	0	39.792
32			2	0	5.097	0	-5.195	0	31.828
33			3	0	5.097	0	-5.195	0	23.863
34			4	0	5.097	0	-5.195	0	15.899
35			5	0	5.097	0	-5.195	0	7.935
36	1	M8	1	0	6.816	0	-5.203	0	44.8
37			2	0	6.816	0	-5.203	0	34.149
38			3	0	6.816	0	-5.203	0	23.498

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
39		4	0	6.816	0	-5.203	0	12.848
40		5	0	6.816	0	-5.203	0	2.197
41	1 M9	1	0	9.548	0	-4.479	0	38.055
42		2	0	9.548	0	-4.479	0	23.137
43		3	0	9.548	0	-4.479	0	8.219
44		4	0	9.548	0	-4.479	0	-6.7
45		5	0	9.548	0	-4.479	0	-21.618
46	1 M10	1	0	6.615	0	-5.284	0	2.857
47		2	0	6.615	0	-5.284	0	-7.478
48		3	0	6.615	0	-5.284	0	-17.814
49		4	0	6.615	0	-5.284	0	-28.149
50		5	0	6.615	0	-5.284	0	-38.485
51	1 M11	1	0	3.876	0	-5.555	0	-14.879
52		2	0	3.876	0	-5.555	0	-20.935
53		3	0	3.876	0	-5.555	0	-26.991
54		4	0	3.876	0	-5.555	0	-33.046
55		5	0	3.876	0	-5.555	0	-39.102
56	1 M12	1	0	.748	0	-5.829	0	-16.556
57		2	0	.748	0	-5.829	0	-17.725
58		3	0	.748	0	-5.829	0	-18.894
59		4	0	.748	0	-5.829	0	-20.063
60		5	0	.748	0	-5.829	0	-21.232
61	1 M13	1	0	9.273	0	-4.324	0	75.435
62		2	0	9.273	0	-4.324	0	60.946
63		3	0	9.273	0	-4.324	0	46.457
64		4	0	9.273	0	-4.324	0	31.968
65		5	0	9.273	0	-4.324	0	17.478
66	1 M14	1	0	13.001	0	-4.309	0	86.88
67		2	0	13.001	0	-4.309	0	66.565
68		3	0	13.001	0	-4.309	0	46.251
69		4	0	13.001	0	-4.309	0	25.936
70		5	0	13.001	0	-4.309	0	5.621
71	1 M15	1	0	16.876	0	-3.814	0	72.768
72		2	0	16.876	0	-3.814	0	46.399
73		3	0	16.876	0	-3.814	0	20.031
74		4	0	16.876	0	-3.814	0	-6.338
75		5	0	16.876	0	-3.814	0	-32.706
76	1 M16	1	0	12.173	0	-4.315	0	12.586
77		2	0	12.173	0	-4.315	0	-6.435
78		3	0	12.173	0	-4.315	0	-25.455
79		4	0	12.173	0	-4.315	0	-44.475
80		5	0	12.173	0	-4.315	0	-63.496
81	1 M17	1	0	7.418	0	-4.47	0	-19.974
82		2	0	7.418	0	-4.47	0	-31.564
83		3	0	7.418	0	-4.47	0	-43.154
84		4	0	7.418	0	-4.47	0	-54.744
85		5	0	7.418	0	-4.47	0	-66.334
86	1 M18	1	0	2.287	0	-4.644	0	-24.82
87		2	0	2.287	0	-4.644	0	-28.394
88		3	0	2.287	0	-4.644	0	-31.968
89		4	0	2.287	0	-4.644	0	-35.542
90		5	0	2.287	0	-4.644	0	-39.117
91	1 M19	1	0	11.598	0	-2.843	0	98.04
92		2	0	11.598	0	-2.843	0	79.918
93		3	0	11.598	0	-2.843	0	61.795
94		4	0	11.598	0	-2.843	0	43.673
95		5	0	11.598	0	-2.843	0	25.55

Member Section Forces (By Combination) (Continued)

	LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
96	1	M20	1	0	16.774	0	-2.836	0	115.357
97			2	0	16.774	0	-2.836	0	89.148
98			3	0	16.774	0	-2.836	0	62.939
99			4	0	16.774	0	-2.836	0	36.73
100			5	0	16.774	0	-2.836	0	10.521
101	1	M21	1	0	20.845	0	-2.535	0	97.002
102			2	0	20.845	0	-2.535	0	64.431
103			3	0	20.845	0	-2.535	0	31.861
104			4	0	20.845	0	-2.535	0	-71
105			5	0	20.845	0	-2.535	0	-33.281
106	1	M22	1	0	15.745	0	-2.808	0	24.681
107			2	0	15.745	0	-2.808	0	.079
108			3	0	15.745	0	-2.808	0	-24.522
109			4	0	15.745	0	-2.808	0	-49.124
110			5	0	15.745	0	-2.808	0	-73.726
111	1	M23	1	0	9.947	0	-2.873	0	-18.228
112			2	0	9.947	0	-2.873	0	-33.77
113			3	0	9.947	0	-2.873	0	-49.313
114			4	0	9.947	0	-2.873	0	-64.855
115			5	0	9.947	0	-2.873	0	-80.397
116	1	M24	1	0	3.56	0	-2.962	0	-27.541
117			2	0	3.56	0	-2.962	0	-33.104
118			3	0	3.56	0	-2.962	0	-38.667
119			4	0	3.56	0	-2.962	0	-44.23
120			5	0	3.56	0	-2.962	0	-49.793
121	1	M25	1	0	12.727	0	-.947	0	109.304
122			2	0	12.727	0	-.947	0	89.418
123			3	0	12.727	0	-.947	0	69.533
124			4	0	12.727	0	-.947	0	49.647
125			5	0	12.727	0	-.947	0	29.761
126	1	M26	1	0	18.502	0	-.945	0	129.679
127			2	0	18.502	0	-.945	0	100.769
128			3	0	18.502	0	-.945	0	71.859
129			4	0	18.502	0	-.945	0	42.949
130			5	0	18.502	0	-.945	0	14.039
131	1	M27	1	0	22.693	0	-.848	0	110.028
132			2	0	22.693	0	-.848	0	74.57
133			3	0	22.693	0	-.848	0	39.111
134			4	0	22.693	0	-.848	0	3.653
135			5	0	22.693	0	-.848	0	-31.805
136	1	M28	1	0	17.464	0	-.931	0	32.356
137			2	0	17.464	0	-.931	0	5.068
138			3	0	17.464	0	-.931	0	-22.22
139			4	0	17.464	0	-.931	0	-49.509
140			5	0	17.464	0	-.931	0	-76.797
141	1	M29	1	0	11.304	0	-.947	0	-15.476
142			2	0	11.304	0	-.947	0	-33.139
143			3	0	11.304	0	-.947	0	-50.801
144			4	0	11.304	0	-.947	0	-68.464
145			5	0	11.304	0	-.947	0	-86.126
146	1	M30	1	0	4.343	0	-.973	0	-27.786
147			2	0	4.343	0	-.973	0	-34.572
148			3	0	4.343	0	-.973	0	-41.358
149			4	0	4.343	0	-.973	0	-48.145
150			5	0	4.343	0	-.973	0	-54.931
151	1	M31	1	0	12.686	0	1.089	0	108.893
152			2	0	12.686	0	1.089	0	89.071

Company : Calderwood Engineering
 Designer : Eric Calderwood
 Job Number : 053-br-12 ER-BRF 015-1(23)

Jamaica Vermont

July 21, 2013
 1:20 PM

Checked By: _____

Member Section Forces (By Combination) (Continued)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
153		3	0	12.686	0	1.089	0	69.248
154		4	0	12.686	0	1.089	0	49.426
155		5	0	12.686	0	1.089	0	29.604
156	1 M32	1	0	18.442	0	1.087	0	129.153
157		2	0	18.442	0	1.087	0	100.338
158		3	0	18.442	0	1.087	0	71.523
159		4	0	18.442	0	1.087	0	42.707
160		5	0	18.442	0	1.087	0	13.892
161	1 M33	1	0	22.627	0	.975	0	109.535
162		2	0	22.627	0	.975	0	74.18
163		3	0	22.627	0	.975	0	38.824
164		4	0	22.627	0	.975	0	3.469
165		5	0	22.627	0	.975	0	-31.886
166	1 M34	1	0	17.403	0	1.071	0	32.051
167		2	0	17.403	0	1.071	0	4.858
168		3	0	17.403	0	1.071	0	-22.334
169		4	0	17.403	0	1.071	0	-49.526
170		5	0	17.403	0	1.071	0	-76.718
171	1 M35	1	0	11.254	0	1.089	0	-15.608
172		2	0	11.254	0	1.089	0	-33.191
173		3	0	11.254	0	1.089	0	-50.775
174		4	0	11.254	0	1.089	0	-68.359
175		5	0	11.254	0	1.089	0	-85.942
176	1 M36	1	0	4.312	0	1.119	0	-27.799
177		2	0	4.312	0	1.119	0	-34.536
178		3	0	4.312	0	1.119	0	-41.273
179		4	0	4.312	0	1.119	0	-48.01
180		5	0	4.312	0	1.119	0	-54.748
181	1 M37	1	0	11.476	0	2.964	0	96.819
182		2	0	11.476	0	2.964	0	78.887
183		3	0	11.476	0	2.964	0	60.956
184		4	0	11.476	0	2.964	0	43.024
185		5	0	11.476	0	2.964	0	25.092
186	1 M38	1	0	16.583	0	2.956	0	113.801
187		2	0	16.583	0	2.956	0	87.89
188		3	0	16.583	0	2.956	0	61.979
189		4	0	16.583	0	2.956	0	36.068
190		5	0	16.583	0	2.956	0	10.158
191	1 M39	1	0	20.64	0	2.641	0	95.604
192		2	0	20.64	0	2.641	0	63.355
193		3	0	20.64	0	2.641	0	31.105
194		4	0	20.64	0	2.641	0	-1.144
195		5	0	20.64	0	2.641	0	-33.394
196	1 M40	1	0	15.556	0	2.929	0	23.893
197		2	0	15.556	0	2.929	0	-.413
198		3	0	15.556	0	2.929	0	-24.72
199		4	0	15.556	0	2.929	0	-49.027
200		5	0	15.556	0	2.929	0	-73.333
201	1 M41	1	0	9.804	0	2.999	0	-18.468
202		2	0	9.804	0	2.999	0	-33.786
203		3	0	9.804	0	2.999	0	-49.104
204		4	0	9.804	0	2.999	0	-64.423
205		5	0	9.804	0	2.999	0	-79.741
206	1 M42	1	0	3.48	0	3.093	0	-27.481
207		2	0	3.48	0	3.093	0	-32.919
208		3	0	3.48	0	3.093	0	-38.357
209		4	0	3.48	0	3.093	0	-43.795

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
210		5	0	3.48	0	3.093	0	-49.233
211	1 M43	1	0	9.078	0	4.408	0	73.439
212		2	0	9.078	0	4.408	0	59.255
213		3	0	9.078	0	4.408	0	45.071
214		4	0	9.078	0	4.408	0	30.887
215		5	0	9.078	0	4.408	0	16.704
216	1 M44	1	0	12.654	0	4.392	0	84.297
217		2	0	12.654	0	4.392	0	64.525
218		3	0	12.654	0	4.392	0	44.753
219		4	0	12.654	0	4.392	0	24.981
220		5	0	12.654	0	4.392	0	5.21
221	1 M45	1	0	16.497	0	3.882	0	70.636
222		2	0	16.497	0	3.882	0	44.86
223		3	0	16.497	0	3.882	0	19.084
224		4	0	16.497	0	3.882	0	-6.692
225		5	0	16.497	0	3.882	0	-32.468
226	1 M46	1	0	11.839	0	4.401	0	11.694
227		2	0	11.839	0	4.401	0	-6.805
228		3	0	11.839	0	4.401	0	-25.304
229		4	0	11.839	0	4.401	0	-43.803
230		5	0	11.839	0	4.401	0	-62.302
231	1 M47	1	0	7.205	0	4.565	0	-19.852
232		2	0	7.205	0	4.565	0	-31.11
233		3	0	7.205	0	4.565	0	-42.368
234		4	0	7.205	0	4.565	0	-53.626
235		5	0	7.205	0	4.565	0	-64.884
236	1 M48	1	0	2.204	0	4.747	0	-24.386
237		2	0	2.204	0	4.747	0	-27.829
238		3	0	2.204	0	4.747	0	-31.272
239		4	0	2.204	0	4.747	0	-34.715
240		5	0	2.204	0	4.747	0	-38.159
241	1 M49	1	0	4.697	0	5.23	0	36.536
242		2	0	4.697	0	5.23	0	29.197
243		3	0	4.697	0	5.23	0	21.859
244		4	0	4.697	0	5.23	0	14.521
245		5	0	4.697	0	5.23	0	7.182
246	1 M50	1	0	6.252	0	5.241	0	41.058
247		2	0	6.252	0	5.241	0	31.29
248		3	0	6.252	0	5.241	0	21.522
249		4	0	6.252	0	5.241	0	11.754
250		5	0	6.252	0	5.241	0	1.985
251	1 M51	1	0	8.823	0	4.5	0	34.947
252		2	0	8.823	0	4.5	0	21.161
253		3	0	8.823	0	4.5	0	7.375
254		4	0	8.823	0	4.5	0	-6.411
255		5	0	8.823	0	4.5	0	-20.197
256	1 M52	1	0	6.1	0	5.328	0	2.326
257		2	0	6.1	0	5.328	0	-7.206
258		3	0	6.1	0	5.328	0	-16.738
259		4	0	6.1	0	5.328	0	-26.27
260		5	0	6.1	0	5.328	0	-35.802
261	1 M53	1	0	3.557	0	5.607	0	-14.078
262		2	0	3.557	0	5.607	0	-19.636
263		3	0	3.557	0	5.607	0	-25.194
264		4	0	3.557	0	5.607	0	-30.751
265		5	0	3.557	0	5.607	0	-36.309
266	1 M54	1	0	638	0	5.888	0	-15.558

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
267		2	0	638	0	5.888	0	-16.555
268		3	0	638	0	5.888	0	-17.553
269		4	0	638	0	5.888	0	-18.551
270		5	0	638	0	5.888	0	-19.548
271	1 M55	1	0	1.214	0	5.457	0	8.498
272		2	0	1.214	0	5.457	0	6.601
273		3	0	1.214	0	5.457	0	4.704
274		4	0	1.214	0	5.457	0	2.807
275		5	0	1.214	0	5.457	0	.909
276	1 M56	1	0	1.4	0	5.476	0	8.619
277		2	0	1.4	0	5.476	0	6.431
278		3	0	1.4	0	5.476	0	4.243
279		4	0	1.4	0	5.476	0	2.055
280		5	0	1.4	0	5.476	0	-.133
281	1 M57	1	0	1.888	0	4.759	0	7.398
282		2	0	1.888	0	4.759	0	4.448
283		3	0	1.888	0	4.759	0	1.499
284		4	0	1.888	0	4.759	0	-1.45
285		5	0	1.888	0	4.759	0	-4.399
286	1 M58	1	0	1.379	0	5.597	0	.477
287		2	0	1.379	0	5.597	0	-1.679
288		3	0	1.379	0	5.597	0	-3.834
289		4	0	1.379	0	5.597	0	-5.989
290		5	0	1.379	0	5.597	0	-8.144
291	1 M59	1	0	.821	0	5.924	0	-3.407
292		2	0	.821	0	5.924	0	-4.69
293		3	0	.821	0	5.924	0	-5.973
294		4	0	.821	0	5.924	0	-7.255
295		5	0	.821	0	5.924	0	-8.538
296	1 M60	1	0	.056	0	6.248	0	-3.976
297		2	0	.056	0	6.248	0	-4.064
298		3	0	.056	0	6.248	0	-4.152
299		4	0	.056	0	6.248	0	-4.24
300		5	0	.056	0	6.248	0	-4.328
301	1 M61	1	0	152.416	0	0	0	0
302		2	0	151.188	0	0	0	-113.852
303		3	0	149.96	0	0	0	-226.783
304		4	0	148.732	0	0	0	-338.792
305		5	0	147.504	0	0	0	-449.881
306	1 M62	1	0	145.478	0	6.614	0	-444.452
307		2	0	143.022	0	6.614	0	-660.826
308		3	0	140.566	0	6.614	0	-873.516
309		4	0	138.11	0	6.614	0	-1082.522
310		5	0	135.653	0	6.614	0	-1287.843
311	1 M63	1	0	135.653	0	-4.1	0	-1287.854
312		2	0	133.197	0	-4.1	0	-1489.491
313		3	0	130.741	0	-4.1	0	-1687.444
314		4	0	128.285	0	-4.1	0	-1881.713
315		5	0	125.828	0	-4.1	0	-2072.297
316	1 M64	1	0	120.106	0	16.325	0	-2067.18
317		2	0	117.036	0	16.325	0	-2289.5
318		3	0	113.966	0	16.325	0	-2506.063
319		4	0	110.895	0	16.325	0	-2716.869
320		5	0	107.825	0	16.325	0	-2921.918
321	1 M65	1	0	107.825	0	-14.059	0	-2921.93
322		2	0	104.755	0	-14.059	0	-3121.222
323		3	0	101.684	0	-14.059	0	-3314.758

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
324		4	0	98.614	0	-14.059	0	-3502.536
325		5	0	95.544	0	-14.059	0	-3684.558
326	1 M66	1	0	85.646	0	23.084	0	-3680.281
327		2	0	82.575	0	23.084	0	-3837.988
328		3	0	79.505	0	23.084	0	-3989.938
329		4	0	76.435	0	23.084	0	-4136.131
330		5	0	73.365	0	23.084	0	-4276.568
331	1 M67	1	0	73.365	0	-21.386	0	-4276.577
332		2	0	70.294	0	-21.386	0	-4411.256
333		3	0	67.224	0	-21.386	0	-4540.179
334		4	0	64.154	0	-21.386	0	-4663.344
335		5	0	61.083	0	-21.386	0	-4780.753
336	1 M68	1	0	48.86	0	26.957	0	-4777.939
337		2	0	45.79	0	26.957	0	-4866.673
338		3	0	42.719	0	26.957	0	-4949.65
339		4	0	39.649	0	26.957	0	-5026.87
340		5	0	36.579	0	26.957	0	-5098.333
341	1 M69	1	0	36.579	0	-26.06	0	-5098.338
342		2	0	33.508	0	-26.06	0	-5164.044
343		3	0	30.438	0	-26.06	0	-5223.994
344		4	0	27.368	0	-26.06	0	-5278.187
345		5	0	24.298	0	-26.06	0	-5326.623
346	1 M70	1	0	10.946	0	27.861	0	-5325.685
347		2	0	7.875	0	27.861	0	-5343.329
348		3	0	4.805	0	27.861	0	-5355.217
349		4	0	1.735	0	27.861	0	-5361.348
350		5	0	-1.336	0	27.861	0	-5361.723
351	1 M71	1	0	-1.336	0	-27.894	0	-5361.722
352		2	0	-4.406	0	-27.894	0	-5356.34
353		3	0	-7.476	0	-27.894	0	-5345.201
354		4	0	-10.546	0	-27.894	0	-5328.305
355		5	0	-13.617	0	-27.894	0	-5305.652
356	1 M72	1	0	-26.928	0	25.823	0	-5306.731
357		2	0	-29.998	0	25.823	0	-5253.362
358		3	0	-33.069	0	25.823	0	-5194.238
359		4	0	-36.139	0	25.823	0	-5129.356
360		5	0	-39.209	0	25.823	0	-5058.717
361	1 M73	1	0	-39.209	0	-26.782	0	-5058.712
362		2	0	-42.279	0	-26.782	0	-4982.317
363		3	0	-45.35	0	-26.782	0	-4900.165
364		4	0	-48.42	0	-26.782	0	-4812.257
365		5	0	-51.49	0	-26.782	0	-4718.591
366	1 M74	1	0	-63.592	0	20.956	0	-4721.525
367		2	0	-66.662	0	20.956	0	-4599.413
368		3	0	-69.732	0	20.956	0	-4471.544
369		4	0	-72.802	0	20.956	0	-4337.918
370		5	0	-75.873	0	20.956	0	-4198.536
371	1 M75	1	0	-75.873	0	-22.703	0	-4198.527
372		2	0	-78.943	0	-22.703	0	-4053.388
373		3	0	-82.013	0	-22.703	0	-3902.492
374		4	0	-85.084	0	-22.703	0	-3745.839
375		5	0	-88.154	0	-22.703	0	-3583.43
376	1 M76	1	0	-97.857	0	13.45	0	-3587.79
377		2	0	-100.927	0	13.45	0	-3401.431
378		3	0	-103.997	0	13.45	0	-3209.316
379		4	0	-107.067	0	13.45	0	-3011.443
380		5	0	-110.138	0	13.45	0	-2807.814

Member Section Forces (By Combination) (Continued)

	LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
381	1	M77	1	0	-110.138	0	-15.747	0	-2807.802
382			2	0	-113.208	0	-15.747	0	-2598.417
383			3	0	-116.278	0	-15.747	0	-2383.275
384			4	0	-119.349	0	-15.747	0	-2162.376
385			5	0	-122.419	0	-15.747	0	-1935.72
386	1	M78	1	0	-127.74	0	3.359	0	-1940.868
387			2	0	-129.981	0	3.359	0	-1764.524
388			3	0	-132.222	0	3.359	0	-1585.113
389			4	0	-134.463	0	3.359	0	-1402.635
390			5	0	-136.704	0	3.359	0	-1217.09
391	1	M79	1	0	-136.704	0	-5.878	0	-1217.08
392			2	0	-138.945	0	-5.878	0	-1028.47
393			3	0	-141.186	0	-5.878	0	-836.792
394			4	0	-143.427	0	-5.878	0	-642.048
395			5	0	-145.668	0	-5.878	0	-444.237
396	1	M80	1	0	-147.507	0	0	0	-449.67
397			2	0	-148.734	0	0	0	-338.633
398			3	0	-149.962	0	0	0	-226.675
399			4	0	-151.189	0	0	0	-113.798
400			5	0	-152.417	0	0	0	0
401	1	M81	1	0	143.504	0	0	0	0
402			2	0	142.149	0	0	0	-106.191
403			3	0	140.794	0	0	0	-211.375
404			4	0	139.439	0	0	0	-315.552
405			5	0	138.083	0	0	0	-418.721
406	1	M82	1	0	136.731	0	5.93	0	-418.73
407			2	0	134.021	0	5.93	0	-620.034
408			3	0	131.311	0	5.93	0	-817.307
409			4	0	128.601	0	5.93	0	-1010.551
410			5	0	125.891	0	5.93	0	-1199.765
411	1	M83	1	0	125.891	0	-4.05	0	-1199.773
412			2	0	123.181	0	-4.05	0	-1384.958
413			3	0	120.471	0	-4.05	0	-1566.113
414			4	0	117.761	0	-4.05	0	-1743.238
415			5	0	115.051	0	-4.05	0	-1916.333
416	1	M84	1	0	112.081	0	14.88	0	-1916.395
417			2	0	108.694	0	14.88	0	-2121.577
418			3	0	105.306	0	14.88	0	-2320.463
419			4	0	101.919	0	14.88	0	-2513.053
420			5	0	98.531	0	14.88	0	-2699.346
421	1	M85	1	0	98.531	0	-13.189	0	-2699.354
422			2	0	95.144	0	-13.189	0	-2879.35
423			3	0	91.756	0	-13.189	0	-3053.049
424			4	0	88.369	0	-13.189	0	-3220.452
425			5	0	84.981	0	-13.189	0	-3381.558
426	1	M86	1	0	80.003	0	21.049	0	-3381.613
427			2	0	76.615	0	21.049	0	-3527.169
428			3	0	73.228	0	21.049	0	-3666.429
429			4	0	69.84	0	21.049	0	-3799.392
430			5	0	66.452	0	21.049	0	-3926.058
431	1	M87	1	0	66.452	0	-19.777	0	-3926.065
432			2	0	63.065	0	-19.777	0	-4046.434
433			3	0	59.677	0	-19.777	0	-4160.507
434			4	0	56.29	0	-19.777	0	-4268.284
435			5	0	52.902	0	-19.777	0	-4369.763
436	1	M88	1	0	46.477	0	24.591	0	-4369.796
437			2	0	43.089	0	24.591	0	-4453.036

Member Section Forces (By Combination) (Continued)

LC Member Label		Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]	
438		3	0	39.702	0	24.591	0	-4529.98	
439		4	0	36.314	0	24.591	0	-4600.627	
440		5	0	32.927	0	24.591	0	-4664.977	
441	1	M89	1	0	32.927	0	-23.919	0	-4664.981
442		2	0	29.539	0	-23.919	0	-4723.034	
443		3	0	26.151	0	-23.919	0	-4774.792	
444		4	0	22.764	0	-23.919	0	-4820.252	
445		5	0	19.376	0	-23.919	0	-4859.416	
446	1	M90	1	0	12.351	0	25.468	0	-4859.426
447		2	0	8.963	0	25.468	0	-4879.235	
448		3	0	5.576	0	25.468	0	-4892.747	
449		4	0	2.188	0	25.468	0	-4899.963	
450		5	0	-1.199	0	25.468	0	-4900.882	
451	1	M91	1	0	-1.199	0	-25.494	0	-4900.882
452		2	0	-4.587	0	-25.494	0	-4895.504	
453		3	0	-7.974	0	-25.494	0	-4883.83	
454		4	0	-11.362	0	-25.494	0	-4865.86	
455		5	0	-14.75	0	-25.494	0	-4841.592	
456	1	M92	1	0	-21.755	0	23.711	0	-4841.581
457		2	0	-25.143	0	23.711	0	-4797.995	
458		3	0	-28.53	0	23.711	0	-4748.113	
459		4	0	-31.918	0	23.711	0	-4691.934	
460		5	0	-35.305	0	23.711	0	-4629.458	
461	1	M93	1	0	-35.305	0	-24.43	0	-4629.455
462		2	0	-38.693	0	-24.43	0	-4560.683	
463		3	0	-42.081	0	-24.43	0	-4485.614	
464		4	0	-45.468	0	-24.43	0	-4404.249	
465		5	0	-48.856	0	-24.43	0	-4316.588	
466	1	M94	1	0	-55.212	0	19.393	0	-4316.553
467		2	0	-58.6	0	19.393	0	-4210.779	
468		3	0	-61.987	0	19.393	0	-4098.709	
469		4	0	-65.375	0	19.393	0	-3980.342	
470		5	0	-68.763	0	19.393	0	-3855.678	
471	1	M95	1	0	-68.763	0	-20.701	0	-3855.671
472		2	0	-72.15	0	-20.701	0	-3724.711	
473		3	0	-75.538	0	-20.701	0	-3587.454	
474		4	0	-78.925	0	-20.701	0	-3443.901	
475		5	0	-82.313	0	-20.701	0	-3294.051	
476	1	M96	1	0	-87.139	0	12.64	0	-3293.993
477		2	0	-90.527	0	12.64	0	-3128.875	
478		3	0	-93.914	0	12.64	0	-2957.461	
479		4	0	-97.302	0	12.64	0	-2779.75	
480		5	0	-100.689	0	12.64	0	-2595.742	
481	1	M97	1	0	-100.689	0	-14.353	0	-2595.733
482		2	0	-104.077	0	-14.353	0	-2405.429	
483		3	0	-107.465	0	-14.353	0	-2208.829	
484		4	0	-110.852	0	-14.353	0	-2005.932	
485		5	0	-114.24	0	-14.353	0	-1796.738	
486	1	M98	1	0	-117.045	0	3.364	0	-1796.676
487		2	0	-119.517	0	3.364	0	-1636.213	
488		3	0	-121.99	0	3.364	0	-1472.395	
489		4	0	-124.462	0	3.364	0	-1305.223	
490		5	0	-126.935	0	3.364	0	-1134.697	
491	1	M99	1	0	-126.935	0	-5.248	0	-1134.69
492		2	0	-129.407	0	-5.248	0	-960.81	
493		3	0	-131.879	0	-5.248	0	-783.576	
494		4	0	-134.352	0	-5.248	0	-602.988	

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]
495		5	0	-136.824	0	-5.248	0	-419.045
496	1 M100	1	0	-138.26	0	0	0	-419.041
497		2	0	-139.615	0	0	0	-315.791
498		3	0	-140.969	0	0	0	-211.534
499		4	0	-142.324	0	0	0	-106.27
500		5	0	-143.678	0	0	0	0
501	1 M101	1	0	141.464	0	0	0	0
502		2	0	140.121	0	0	0	-103.765
503		3	0	138.778	0	0	0	-206.539
504		4	0	137.435	0	0	0	-308.324
505		5	0	136.092	0	0	0	-409.119
506	1 M102	1	0	134.249	0	5.789	0	-409.88
507		2	0	131.563	0	5.789	0	-605.783
508		3	0	128.877	0	5.789	0	-797.727
509		4	0	126.19	0	5.789	0	-985.711
510		5	0	123.504	0	5.789	0	-1169.735
511	1 M103	1	0	123.504	0	-3.942	0	-1169.743
512		2	0	120.818	0	-3.942	0	-1349.807
513		3	0	118.131	0	-3.942	0	-1525.913
514		4	0	115.445	0	-3.942	0	-1698.058
515		5	0	112.758	0	-3.942	0	-1866.244
516	1 M104	1	0	108.777	0	14.447	0	-1867.035
517		2	0	105.419	0	14.447	0	-2064.363
518		3	0	102.061	0	14.447	0	-2255.505
519		4	0	98.703	0	14.447	0	-2440.459
520		5	0	95.345	0	14.447	0	-2619.226
521	1 M105	1	0	95.345	0	-12.789	0	-2619.235
522		2	0	91.987	0	-12.789	0	-2791.814
523		3	0	88.629	0	-12.789	0	-2958.207
524		4	0	85.272	0	-12.789	0	-3118.413
525		5	0	81.914	0	-12.789	0	-3272.431
526	1 M106	1	0	76.789	0	20.327	0	-3272.966
527		2	0	73.431	0	20.327	0	-3411.357
528		3	0	70.073	0	20.327	0	-3543.56
529		4	0	66.715	0	20.327	0	-3669.576
530		5	0	63.357	0	20.327	0	-3789.405
531	1 M107	1	0	63.357	0	-19.078	0	-3789.411
532		2	0	59.999	0	-19.078	0	-3903.053
533		3	0	56.641	0	-19.078	0	-4010.508
534		4	0	53.283	0	-19.078	0	-4111.776
535		5	0	49.925	0	-19.078	0	-4206.857
536	1 M108	1	0	44.604	0	23.656	0	-4207.182
537		2	0	41.246	0	23.656	0	-4286.271
538		3	0	37.888	0	23.656	0	-4359.173
539		4	0	34.53	0	23.656	0	-4425.888
540		5	0	31.172	0	23.656	0	-4486.416
541	1 M109	1	0	31.172	0	-22.996	0	-4486.42
542		2	0	27.814	0	-22.996	0	-4540.761
543		3	0	24.456	0	-22.996	0	-4588.915
544		4	0	21.098	0	-22.996	0	-4630.882
545		5	0	17.74	0	-22.996	0	-4666.662
546	1 M110	1	0	12.299	0	24.466	0	-4666.767
547		2	0	8.941	0	24.466	0	-4686.335
548		3	0	5.583	0	24.466	0	-4699.716
549		4	0	2.226	0	24.466	0	-4706.91
550		5	0	-1.132	0	24.466	0	-4707.917
551	1 M111	1	0	-1.132	0	-24.49	0	-4707.917

Member Section Forces (By Combination) (Continued)

LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]
552	2	0	-4.49	0	-24.49	0	-4702.737
553	3	0	-7.848	0	-24.49	0	-4691.37
554	4	0	-11.206	0	-24.49	0	-4673.816
555	5	0	-14.564	0	-24.49	0	-4650.075
556	1	0	-20	0	22.8	0	-4649.954
557	2	0	-23.358	0	22.8	0	-4610.011
558	3	0	-26.716	0	22.8	0	-4563.881
559	4	0	-30.074	0	22.8	0	-4511.564
560	5	0	-33.432	0	22.8	0	-4453.06
561	1	0	-33.432	0	-23.506	0	-4453.056
562	2	0	-36.79	0	-23.506	0	-4388.365
563	3	0	-40.148	0	-23.506	0	-4317.487
564	4	0	-43.505	0	-23.506	0	-4240.422
565	5	0	-46.863	0	-23.506	0	-4157.17
566	1	0	-52.17	0	18.715	0	-4156.83
567	2	0	-55.528	0	18.715	0	-4057.613
568	3	0	-58.886	0	18.715	0	-3952.209
569	4	0	-62.244	0	18.715	0	-3840.618
570	5	0	-65.602	0	18.715	0	-3722.84
571	1	0	-65.602	0	-19.998	0	-3722.833
572	2	0	-68.96	0	-19.998	0	-3598.868
573	3	0	-72.318	0	-19.998	0	-3468.717
574	4	0	-75.676	0	-19.998	0	-3332.378
575	5	0	-79.034	0	-19.998	0	-3189.852
576	1	0	-84.126	0	12.262	0	-3189.302
577	2	0	-87.484	0	12.262	0	-3031.206
578	3	0	-90.842	0	12.262	0	-2866.922
579	4	0	-94.2	0	12.262	0	-2696.452
580	5	0	-97.558	0	12.262	0	-2519.795
581	1	0	-97.558	0	-13.941	0	-2519.786
582	2	0	-100.916	0	-13.941	0	-2336.942
583	3	0	-104.274	0	-13.941	0	-2147.912
584	4	0	-107.632	0	-13.941	0	-1952.694
585	5	0	-110.99	0	-13.941	0	-1751.289
586	1	0	-114.811	0	3.273	0	-1750.477
587	2	0	-117.262	0	3.273	0	-1594.434
588	3	0	-119.713	0	3.273	0	-1435.095
589	4	0	-122.164	0	3.273	0	-1272.46
590	5	0	-124.615	0	3.273	0	-1106.53
591	1	0	-124.615	0	-5.125	0	-1106.523
592	2	0	-127.066	0	-5.125	0	-937.297
593	3	0	-129.516	0	-5.125	0	-764.775
594	4	0	-131.967	0	-5.125	0	-588.958
595	5	0	-134.418	0	-5.125	0	-409.845
596	1	0	-136.155	0	0	0	-409.106
597	2	0	-137.498	0	0	0	-308.313
598	3	0	-138.841	0	0	0	-206.531
599	4	0	-140.183	0	0	0	-103.76
600	5	0	-141.526	0	0	0	0
601	1	0	100.141	0	0	0	0
602	2	0	98.883	0	0	0	-72.694
603	3	0	97.624	0	0	0	-144.468
604	4	0	96.366	0	0	0	-215.323
605	5	0	95.108	0	0	0	-285.259
606	1	0	94.508	0	3.66	0	-284.422
607	2	0	91.991	0	3.66	0	-420.66
608	3	0	89.475	0	3.66	0	-553.22

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
609		4	0	86.958	0	3.66	0	-682.104
610		5	0	84.441	0	3.66	0	-807.311
611	1 M123	1	0	84.441	0	-3.056	0	-807.314
612		2	0	81.925	0	-3.056	0	-928.845
613		3	0	79.408	0	-3.056	0	-1046.699
614		4	0	76.892	0	-3.056	0	-1160.876
615		5	0	74.375	0	-3.056	0	-1271.377
616	1 M124	1	0	76.058	0	9.525	0	-1270.615
617		2	0	72.913	0	9.525	0	-1406.644
618		3	0	69.767	0	9.525	0	-1536.928
619		4	0	66.621	0	9.525	0	-1661.468
620		5	0	63.475	0	9.525	0	-1780.262
621	1 M125	1	0	63.475	0	-8.987	0	-1780.265
622		2	0	60.33	0	-8.987	0	-1893.314
623		3	0	57.184	0	-8.987	0	-2000.618
624		4	0	54.038	0	-8.987	0	-2102.178
625		5	0	50.893	0	-8.987	0	-2197.993
626	1 M126	1	0	54.345	0	13.452	0	-2197.514
627		2	0	51.2	0	13.452	0	-2293.89
628		3	0	48.054	0	13.452	0	-2384.521
629		4	0	44.908	0	13.452	0	-2469.407
630		5	0	41.763	0	13.452	0	-2548.548
631	1 M127	1	0	41.763	0	-13.049	0	-2548.55
632		2	0	38.617	0	-13.049	0	-2621.947
633		3	0	35.471	0	-13.049	0	-2689.598
634		4	0	32.325	0	-13.049	0	-2751.505
635		5	0	29.18	0	-13.049	0	-2807.667
636	1 M128	1	0	33.03	0	15.718	0	-2807.407
637		2	0	29.884	0	15.718	0	-2864.855
638		3	0	26.738	0	15.718	0	-2916.559
639		4	0	23.593	0	15.718	0	-2962.517
640		5	0	20.447	0	15.718	0	-3002.731
641	1 M129	1	0	20.447	0	-15.506	0	-3002.732
642		2	0	17.301	0	-15.506	0	-3037.201
643		3	0	14.156	0	-15.506	0	-3065.925
644		4	0	11.01	0	-15.506	0	-3088.904
645		5	0	7.864	0	-15.506	0	-3106.138
646	1 M130	1	0	11.843	0	16.357	0	-3106.06
647		2	0	8.697	0	16.357	0	-3124.816
648		3	0	5.552	0	16.357	0	-3137.827
649		4	0	2.406	0	16.357	0	-3145.093
650		5	0	-.74	0	16.357	0	-3146.614
651	1 M131	1	0	-.74	0	-16.364	0	-3146.614
652		2	0	-3.885	0	-16.364	0	-3142.391
653		3	0	-7.031	0	-16.364	0	-3132.423
654		4	0	-10.177	0	-16.364	0	-3116.71
655		5	0	-13.323	0	-16.364	0	-3095.252
656	1 M132	1	0	-9.348	0	15.386	0	-3095.342
657		2	0	-12.494	0	15.386	0	-3075.398
658		3	0	-15.64	0	15.386	0	-3049.709
659		4	0	-18.785	0	15.386	0	-3018.274
660		5	0	-21.931	0	15.386	0	-2981.095
661	1 M133	1	0	-21.931	0	-15.613	0	-2981.094
662		2	0	-25.077	0	-15.613	0	-2938.17
663		3	0	-28.222	0	-15.613	0	-2889.502
664		4	0	-31.368	0	-15.613	0	-2835.088
665		5	0	-34.514	0	-15.613	0	-2774.93

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]
666	1 M134	1	0	-30.68	0	12.818	0	-2775.203
667		2	0	-33.826	0	12.818	0	-2716.301
668		3	0	-36.972	0	12.818	0	-2651.653
669		4	0	-40.118	0	12.818	0	-2581.261
670		5	0	-43.263	0	12.818	0	-2505.124
671	1 M135	1	0	-43.263	0	-13.232	0	-2505.122
672		2	0	-46.409	0	-13.232	0	-2423.24
673		3	0	-49.555	0	-13.232	0	-2335.613
674		4	0	-52.7	0	-13.232	0	-2242.242
675		5	0	-55.846	0	-13.232	0	-2143.125
676	1 M136	1	0	-52.439	0	8.642	0	-2143.621
677		2	0	-55.585	0	8.642	0	-2044.982
678		3	0	-58.73	0	8.642	0	-1940.598
679		4	0	-61.876	0	8.642	0	-1830.469
680		5	0	-65.022	0	8.642	0	-1714.595
681	1 M137	1	0	-65.022	0	-9.187	0	-1714.592
682		2	0	-68.168	0	-9.187	0	-1592.974
683		3	0	-71.313	0	-9.187	0	-1465.611
684		4	0	-74.459	0	-9.187	0	-1332.503
685		5	0	-77.605	0	-9.187	0	-1193.65
686	1 M138	1	0	-76.132	0	2.596	0	-1194.432
687		2	0	-78.428	0	2.596	0	-1091.425
688		3	0	-80.724	0	2.596	0	-985.357
689		4	0	-83.02	0	2.596	0	-876.229
690		5	0	-85.316	0	2.596	0	-764.041
691	1 M139	1	0	-85.316	0	-3.202	0	-764.039
692		2	0	-87.612	0	-3.202	0	-648.791
693		3	0	-89.908	0	-3.202	0	-530.482
694		4	0	-92.204	0	-3.202	0	-409.113
695		5	0	-94.499	0	-3.202	0	-284.684
696	1 M140	1	0	-95.241	0	0	0	-285.509
697		2	0	-96.499	0	0	0	-215.509
698		3	0	-97.757	0	0	0	-144.591
699		4	0	-99.014	0	0	0	-72.755
700		5	0	-100.272	0	0	0	0
701	1 M141	1	0	97.803	0	0	0	0
702		2	0	96.556	0	0	0	-70.359
703		3	0	95.309	0	0	0	-139.814
704		4	0	94.062	0	0	0	-208.367
705		5	0	92.815	0	0	0	-276.017
706	1 M142	1	0	92.1	0	3.561	0	-275.705
707		2	0	89.606	0	3.561	0	-407.26
708		3	0	87.112	0	3.561	0	-535.204
709		4	0	84.618	0	3.561	0	-659.536
710		5	0	82.124	0	3.561	0	-780.257
711	1 M143	1	0	82.124	0	-2.93	0	-780.26
712		2	0	79.629	0	-2.93	0	-897.369
713		3	0	77.135	0	-2.93	0	-1010.867
714		4	0	74.641	0	-2.93	0	-1120.753
715		5	0	72.147	0	-2.93	0	-1227.027
716	1 M144	1	0	73.636	0	9.193	0	-1226.798
717		2	0	70.518	0	9.193	0	-1357.257
718		3	0	67.4	0	9.193	0	-1482.073
719		4	0	64.283	0	9.193	0	-1601.247
720		5	0	61.165	0	9.193	0	-1714.777
721	1 M145	1	0	61.165	0	-8.638	0	-1714.78
722		2	0	58.047	0	-8.638	0	-1822.666

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
723		3	0	54.929	0	-8.638	0	-1924.91
724		4	0	51.812	0	-8.638	0	-2021.511
725		5	0	48.694	0	-8.638	0	-2112.469
726	1 M146	1	0	52.199	0	12.918	0	-2112.336
727		2	0	49.082	0	12.918	0	-2203.995
728		3	0	45.964	0	12.918	0	-2290.011
729		4	0	42.846	0	12.918	0	-2370.385
730		5	0	39.728	0	12.918	0	-2445.115
731	1 M147	1	0	39.728	0	-12.509	0	-2445.117
732		2	0	36.611	0	-12.509	0	-2514.204
733		3	0	33.493	0	-12.509	0	-2577.648
734		4	0	30.375	0	-12.509	0	-2635.449
735		5	0	27.258	0	-12.509	0	-2687.606
736	1 M148	1	0	31.806	0	15.043	0	-2687.554
737		2	0	28.688	0	15.043	0	-2742.301
738		3	0	25.57	0	15.043	0	-2791.404
739		4	0	22.452	0	15.043	0	-2834.865
740		5	0	19.335	0	15.043	0	-2872.682
741	1 M149	1	0	19.335	0	-14.829	0	-2872.683
742		2	0	16.217	0	-14.829	0	-2904.857
743		3	0	13.099	0	-14.829	0	-2931.389
744		4	0	9.982	0	-14.829	0	-2952.277
745		5	0	6.864	0	-14.829	0	-2967.522
746	1 M150	1	0	11.774	0	15.634	0	-2967.51
747		2	0	8.657	0	15.634	0	-2985.999
748		3	0	5.539	0	15.634	0	-2998.846
749		4	0	2.421	0	15.634	0	-3006.05
750		5	0	-697	0	15.634	0	-3007.61
751	1 M151	1	0	-697	0	-15.642	0	-3007.61
752		2	0	-3.814	0	-15.642	0	-3003.528
753		3	0	-6.932	0	-15.642	0	-2993.802
754		4	0	-10.05	0	-15.642	0	-2978.434
755		5	0	-13.168	0	-15.642	0	-2957.422
756	1 M152	1	0	-8.268	0	14.716	0	-2957.436
757		2	0	-11.386	0	14.716	0	-2939.649
758		3	0	-14.504	0	14.716	0	-2916.219
759		4	0	-17.621	0	14.716	0	-2887.146
760		5	0	-20.739	0	14.716	0	-2852.43
761	1 M153	1	0	-20.739	0	-14.945	0	-2852.429
762		2	0	-23.857	0	-14.945	0	-2812.07
763		3	0	-26.974	0	-14.945	0	-2766.068
764		4	0	-30.092	0	-14.945	0	-2714.423
765		5	0	-33.21	0	-14.945	0	-2657.135
766	1 M154	1	0	-28.707	0	12.29	0	-2657.191
767		2	0	-31.825	0	12.29	0	-2602.409
768		3	0	-34.943	0	12.29	0	-2541.985
769		4	0	-38.06	0	12.29	0	-2475.917
770		5	0	-41.178	0	12.29	0	-2404.206
771	1 M155	1	0	-41.178	0	-12.711	0	-2404.204
772		2	0	-44.296	0	-12.711	0	-2326.85
773		3	0	-47.414	0	-12.711	0	-2243.853
774		4	0	-50.531	0	-12.711	0	-2155.213
775		5	0	-53.649	0	-12.711	0	-2060.93
776	1 M156	1	0	-50.265	0	8.308	0	-2061.071
777		2	0	-53.382	0	8.308	0	-1967.27
778		3	0	-56.5	0	8.308	0	-1867.827
779		4	0	-59.618	0	8.308	0	-1762.74

Member Section Forces (By Combination) (Continued)

LC Member Label	Sec	Axial[k]	v Shear[k]	z Shear[k]	Torque[k-ft]	v-v Moment...	z-z Moment[k-ft]
780		0	-62.736	0	8.308	0	-1652.01
781	1 M157	1	0	-62.736	0	-8.871	0
782		2	0	-65.853	0	-8.871	0
783		3	0	-68.971	0	-8.871	0
784		4	0	-72.089	0	-8.871	0
785		5	0	-75.206	0	-8.871	0
786	1 M158	1	0	-73.913	0	2.485	0
787		2	0	-76.189	0	2.485	0
788		3	0	-78.464	0	2.485	0
789		4	0	-80.74	0	2.485	0
790		5	0	-83.015	0	2.485	0
791	1 M159	1	0	-83.015	0	-3.118	0
792		2	0	-85.291	0	-3.118	0
793		3	0	-87.566	0	-3.118	0
794		4	0	-89.842	0	-3.118	0
795		5	0	-92.117	0	-3.118	0
796	1 M160	1	0	-92.809	0	0	0
797		2	0	-94.055	0	0	0
798		3	0	-95.302	0	0	0
799		4	0	-96.548	0	0	0
800		5	0	-97.795	0	0	0
801	1 M161	1	0	94.457	0	0	0
802		2	0	93.221	0	0	0
803		3	0	91.985	0	0	0
804		4	0	90.749	0	0	0
805		5	0	89.513	0	0	0
806	1 M162	1	0	89.023	0	3.437	0
807		2	0	86.551	0	3.437	0
808		3	0	84.079	0	3.437	0
809		4	0	81.607	0	3.437	0
810		5	0	79.136	0	3.437	0
811	1 M163	1	0	79.136	0	-2.771	0
812		2	0	76.664	0	-2.771	0
813		3	0	74.192	0	-2.771	0
814		4	0	71.72	0	-2.771	0
815		5	0	69.249	0	-2.771	0
816	1 M164	1	0	71.126	0	8.806	0
817		2	0	68.036	0	8.806	0
818		3	0	64.947	0	8.806	0
819		4	0	61.857	0	8.806	0
820		5	0	58.767	0	8.806	0
821	1 M165	1	0	58.767	0	-8.226	0
822		2	0	55.677	0	-8.226	0
823		3	0	52.588	0	-8.226	0
824		4	0	49.498	0	-8.226	0
825		5	0	46.408	0	-8.226	0
826	1 M166	1	0	50.288	0	12.334	0
827		2	0	47.199	0	12.334	0
828		3	0	44.109	0	12.334	0
829		4	0	41.019	0	12.334	0
830		5	0	37.929	0	12.334	0
831	1 M167	1	0	37.929	0	-11.912	0
832		2	0	34.84	0	-11.912	0
833		3	0	31.75	0	-11.912	0
834		4	0	28.66	0	-11.912	0
835		5	0	25.57	0	-11.912	0
836	1 M168	1	0	30.707	0	14.331	0

Member Section Forces (By Combination) (Continued)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]	
837		2	0	27.618	0	14.331	0	-2611.619	
838		3	0	24.528	0	14.331	0	-2658.387	
839		4	0	21.438	0	14.331	0	-2699.612	
840		5	0	18.348	0	14.331	0	-2735.296	
841	1	M169	1	0	18.348	0	-14.112	0	-2735.297
842		2	0	15.259	0	-14.112	0	-2765.438	
843		3	0	12.169	0	-14.112	0	-2790.037	
844		4	0	9.079	0	-14.112	0	-2809.094	
845		5	0	5.989	0	-14.112	0	-2822.609	
846	1	M170	1	0	11.7	0	14.878	0	-2822.587
847		2	0	8.61	0	14.878	0	-2840.803	
848		3	0	5.521	0	14.878	0	-2853.477	
849		4	0	2.431	0	14.878	0	-2860.608	
850		5	0	-659	0	14.878	0	-2862.197	
851	1	M171	1	0	-659	0	-14.886	0	-2862.197
852		2	0	-3.749	0	-14.886	0	-2858.244	
853		3	0	-6.838	0	-14.886	0	-2848.749	
854		4	0	-9.928	0	-14.886	0	-2833.711	
855		5	0	-13.018	0	-14.886	0	-2813.132	
856	1	M172	1	0	-7.326	0	14.006	0	-2813.156
857		2	0	-10.416	0	14.006	0	-2797.244	
858		3	0	-13.506	0	14.006	0	-2775.789	
859		4	0	-16.595	0	14.006	0	-2748.792	
860		5	0	-19.685	0	14.006	0	-2716.253	
861	1	M173	1	0	-19.685	0	-14.24	0	-2716.252
862		2	0	-22.775	0	-14.24	0	-2678.171	
863		3	0	-25.865	0	-14.24	0	-2634.547	
864		4	0	-28.954	0	-14.24	0	-2585.382	
865		5	0	-32.044	0	-14.24	0	-2530.674	
866	1	M174	1	0	-26.971	0	11.704	0	-2530.754
867		2	0	-30.061	0	11.704	0	-2479.604	
868		3	0	-33.15	0	11.704	0	-2422.912	
869		4	0	-36.24	0	11.704	0	-2360.677	
870		5	0	-39.33	0	11.704	0	-2292.901	
871	1	M175	1	0	-39.33	0	-12.139	0	-2292.898
872		2	0	-42.419	0	-12.139	0	-2219.579	
873		3	0	-45.509	0	-12.139	0	-2140.718	
874		4	0	-48.599	0	-12.139	0	-2056.315	
875		5	0	-51.689	0	-12.139	0	-1966.37	
876	1	M176	1	0	-47.937	0	7.912	0	-1966.529
877		2	0	-51.027	0	7.912	0	-1877.77	
878		3	0	-54.117	0	7.912	0	-1783.47	
879		4	0	-57.206	0	7.912	0	-1683.626	
880		5	0	-60.296	0	7.912	0	-1578.241	
881	1	M177	1	0	-60.296	0	-8.5	0	-1578.238
882		2	0	-63.386	0	-8.5	0	-1467.31	
883		3	0	-66.476	0	-8.5	0	-1350.841	
884		4	0	-69.565	0	-8.5	0	-1228.829	
885		5	0	-72.655	0	-8.5	0	-1101.275	
886	1	M178	1	0	-70.987	0	2.346	0	-1101.514
887		2	0	-73.242	0	2.346	0	-1007.102	
888		3	0	-75.497	0	2.346	0	-909.739	
889		4	0	-77.752	0	2.346	0	-809.423	
890		5	0	-80.007	0	2.346	0	-706.154	
891	1	M179	1	0	-80.007	0	-3.014	0	-706.152
892		2	0	-82.262	0	-3.014	0	-599.931	
893		3	0	-84.517	0	-3.014	0	-490.758	

Member Section Forces (By Combination) (Continued)

LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
894	4	0	-86.772	0	-3.014	0	-378.633
895	5	0	-89.027	0	-3.014	0	-263.555
896	1	M180	1	0	-89.513	0	-263.867
897	2	0	-90.748	0	0	0	-199.229
898	3	0	-91.983	0	0	0	-133.705
899	4	0	-93.219	0	0	0	-67.296
900	5	0	-94.454	0	0	0	0
901	1	M181	1	0	88.207	0	0
902	2	0	87.132	0	0	0	-62.333
903	3	0	86.056	0	0	0	-123.902
904	4	0	84.981	0	0	0	-184.706
905	5	0	83.905	0	0	0	-244.746
906	1	M182	1	0	83.431	0	3.262
907	2	0	81.28	0	3.262	0	-368.125
908	3	0	79.129	0	3.262	0	-482.176
909	4	0	76.978	0	3.262	0	-593.169
910	5	0	74.827	0	3.262	0	-701.103
911	1	M183	1	0	74.827	0	-2.571
912	2	0	72.677	0	-2.571	0	-805.982
913	3	0	70.526	0	-2.571	0	-907.799
914	4	0	68.375	0	-2.571	0	-1006.559
915	5	0	66.224	0	-2.571	0	-1102.259
916	1	M184	1	0	66.347	0	8.315
917	2	0	63.659	0	8.315	0	-1223.67
918	3	0	60.97	0	8.315	0	-1334.435
919	4	0	58.282	0	8.315	0	-1440.421
920	5	0	55.594	0	8.315	0	-1541.628
921	1	M185	1	0	55.594	0	-7.716
922	2	0	52.905	0	-7.716	0	-1638.06
923	3	0	50.217	0	-7.716	0	-1729.709
924	4	0	47.528	0	-7.716	0	-1816.58
925	5	0	44.84	0	-7.716	0	-1898.672
926	1	M186	1	0	46.502	0	11.633
927	2	0	43.814	0	11.633	0	-1983.605
928	3	0	41.125	0	11.633	0	-2059.094
929	4	0	38.437	0	11.633	0	-2129.805
930	5	0	35.748	0	11.633	0	-2195.737
931	1	M187	1	0	35.748	0	-11.2
932	2	0	33.06	0	-11.2	0	-2256.893
933	3	0	30.371	0	-11.2	0	-2313.267
934	4	0	27.683	0	-11.2	0	-2364.863
935	5	0	24.994	0	-11.2	0	-2411.68
936	1	M188	1	0	27.93	0	13.501
937	2	0	25.241	0	13.501	0	-2461.909
938	3	0	22.553	0	13.501	0	-2504.386
939	4	0	19.864	0	13.501	0	-2542.084
940	5	0	17.176	0	13.501	0	-2575.003
941	1	M189	1	0	17.176	0	-13.277
942	2	0	14.487	0	-13.277	0	-2603.145
943	3	0	11.799	0	-13.277	0	-2626.507
944	4	0	9.11	0	-13.277	0	-2645.09
945	5	0	6.422	0	-13.277	0	-2658.894
946	1	M190	1	0	10.14	0	14.002
947	2	0	7.452	0	14.002	0	-2675.505
948	3	0	4.763	0	14.002	0	-2686.361
949	4	0	2.075	0	14.002	0	-2692.438
950	5	0	-6.14	0	14.002	0	-2693.736

Member Section Forces (By Combination) (Continued)

	LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
951	1	M191	1	0	-614	0	-14.01	0	-2693.736
952			2	0	-3.302	0	-14.01	0	-2690.256
953			3	0	-5.991	0	-14.01	0	-2681.996
954			4	0	-8.679	0	-14.01	0	-2668.959
955			5	0	-11.368	0	-14.01	0	-2651.142
956	1	M192	1	0	-7.681	0	13.176	0	-2650.019
957			2	0	-10.369	0	13.176	0	-2633.976
958			3	0	-13.058	0	13.176	0	-2613.155
959			4	0	-15.746	0	13.176	0	-2587.556
960			5	0	-18.435	0	13.176	0	-2557.177
961	1	M193	1	0	-18.435	0	-13.416	0	-2557.176
962			2	0	-21.123	0	-13.416	0	-2522.019
963			3	0	-23.812	0	-13.416	0	-2482.083
964			4	0	-26.5	0	-13.416	0	-2437.368
965			5	0	-29.189	0	-13.416	0	-2387.874
966	1	M194	1	0	-26.333	0	11.004	0	-2384.769
967			2	0	-29.022	0	11.004	0	-2335.572
968			3	0	-31.71	0	11.004	0	-2281.596
969			4	0	-34.399	0	11.004	0	-2222.841
970			5	0	-37.087	0	11.004	0	-2159.308
971	1	M195	1	0	-37.087	0	-11.45	0	-2159.305
972			2	0	-39.776	0	-11.45	0	-2090.993
973			3	0	-42.464	0	-11.45	0	-2017.902
974			4	0	-45.153	0	-11.45	0	-1940.033
975			5	0	-47.841	0	-11.45	0	-1857.384
976	1	M196	1	0	-46.262	0	7.419	0	-1852.617
977			2	0	-48.951	0	7.419	0	-1767.995
978			3	0	-51.639	0	7.419	0	-1678.595
979			4	0	-54.328	0	7.419	0	-1584.416
980			5	0	-57.016	0	7.419	0	-1485.459
981	1	M197	1	0	-57.016	0	-8.028	0	-1485.456
982			2	0	-59.705	0	-8.028	0	-1381.719
983			3	0	-62.393	0	-8.028	0	-1273.205
984			4	0	-65.082	0	-8.028	0	-1159.911
985			5	0	-67.77	0	-8.028	0	-1041.838
986	1	M198	1	0	-67.757	0	2.173	0	-1035.91
987			2	0	-69.719	0	2.173	0	-946.734
988			3	0	-71.681	0	2.173	0	-855.012
989			4	0	-73.643	0	2.173	0	-760.745
990			5	0	-75.606	0	2.173	0	-663.931
991	1	M199	1	0	-75.606	0	-2.866	0	-663.929
992			2	0	-77.568	0	-2.866	0	-564.57
993			3	0	-79.53	0	-2.866	0	-462.666
994			4	0	-81.492	0	-2.866	0	-358.216
995			5	0	-83.455	0	-2.866	0	-251.22
996	1	M200	1	0	-84.023	0	0	0	-244.96
997			2	0	-85.098	0	0	0	-184.866
998			3	0	-86.173	0	0	0	-124.008
999			4	0	-87.248	0	0	0	-62.386
1000			5	0	-88.323	0	0	0	0

STR
IV

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]	Footing
1	N1	Reaction	Reaction	Reaction				
2	N22	Reaction	Reaction	Reaction				
3	N43	Reaction	Reaction	Reaction				
4	N64	Reaction	Reaction	Reaction				
5	N85	Reaction	Reaction	Reaction				
6	N106	Reaction	Reaction	Reaction				
7	N127	Reaction	Reaction	Reaction				
8	N21	Reaction	Reaction	Reaction				
9	N42	Reaction	Reaction	Reaction				
10	N63	Reaction	Reaction	Reaction				
11	N84	Reaction	Reaction	Reaction				
12	N105	Reaction	Reaction	Reaction				
13	N126	Reaction	Reaction	Reaction				
14	N147	Reaction	Reaction	Reaction				

Member Section Forces (By Combination)

Member Section Forces (By Combination)									
	LC	Member Label	Sec	Axial[k]	y Shea...	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]
1	2	M1	1	0	1.124	0	-5.217	0	8.202
2			2	0	1.124	0	-5.217	0	6.445
3			3	0	1.124	0	-5.217	0	4.688
4			4	0	1.124	0	-5.217	0	2.931
5			5	0	1.124	0	-5.217	0	1.175
6	2	M2	1	0	1.274	0	-5.219	0	8.569
7			2	0	1.274	0	-5.219	0	6.579
8			3	0	1.274	0	-5.219	0	4.589
9			4	0	1.274	0	-5.219	0	2.598
10			5	0	1.274	0	-5.219	0	.608
11	2	M3	1	0	1.723	0	-4.576	0	7.791
12			2	0	1.723	0	-4.576	0	5.099
13			3	0	1.723	0	-4.576	0	2.407
14			4	0	1.723	0	-4.576	0	-.284
15			5	0	1.723	0	-4.576	0	-2.976
16	2	M4	1	0	1.242	0	-5.263	0	1.644
17			2	0	1.242	0	-5.263	0	-.297
18			3	0	1.242	0	-5.263	0	-2.238
19			4	0	1.242	0	-5.263	0	-4.179
20			5	0	1.242	0	-5.263	0	-6.12
21	2	M5	1	0	.822	0	-5.508	0	-1.654
22			2	0	.822	0	-5.508	0	-2.937
23			3	0	.822	0	-5.508	0	-4.221
24			4	0	.822	0	-5.508	0	-5.505
25			5	0	.822	0	-5.508	0	-6.789
26	2	M6	1	0	.246	0	-5.762	0	-2.507
27			2	0	.246	0	-5.762	0	-2.892
28			3	0	.246	0	-5.762	0	-3.276
29			4	0	.246	0	-5.762	0	-3.661
30			5	0	.246	0	-5.762	0	-4.046
31	2	M7	1	0	3.948	0	-4.944	0	34.191
32			2	0	3.948	0	-4.944	0	28.023
33			3	0	3.948	0	-4.944	0	21.854
34			4	0	3.948	0	-4.944	0	15.685
35			5	0	3.948	0	-4.944	0	9.516
36	2	M8	1	0	5.611	0	-4.943	0	41.008
37			2	0	5.611	0	-4.943	0	32.241
38			3	0	5.611	0	-4.943	0	23.474

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
39		4	0	5.611	0	-4.943	0	14.707
40		5	0	5.611	0	-4.943	0	5.94
41	2 M9	1	0	7.863	0	-4.312	0	36.387
42		2	0	7.863	0	-4.312	0	24.1
43		3	0	7.863	0	-4.312	0	11.814
44		4	0	7.863	0	-4.312	0	-4.73
45		5	0	7.863	0	-4.312	0	-12.76
46	2 M10	1	0	5.654	0	-4.966	0	7.907
47		2	0	5.654	0	-4.966	0	-9.27
48		3	0	5.654	0	-4.966	0	-9.761
49		4	0	5.654	0	-4.966	0	-18.595
50		5	0	5.654	0	-4.966	0	-27.429
51	2 M11	1	0	3.529	0	-5.17	0	-7.604
52		2	0	3.529	0	-5.17	0	-13.118
53		3	0	3.529	0	-5.17	0	-18.632
54		4	0	3.529	0	-5.17	0	-24.146
55		5	0	3.529	0	-5.17	0	-29.66
56	2 M12	1	0	1.094	0	-5.387	0	-10.818
57		2	0	1.094	0	-5.387	0	-12.527
58		3	0	1.094	0	-5.387	0	-14.237
59		4	0	1.094	0	-5.387	0	-15.946
60		5	0	1.094	0	-5.387	0	-17.656
61	2 M13	1	0	7.29	0	-4.082	0	64.754
62		2	0	7.29	0	-4.082	0	53.363
63		3	0	7.29	0	-4.082	0	41.973
64		4	0	7.29	0	-4.082	0	30.583
65		5	0	7.29	0	-4.082	0	19.193
66	2 M14	1	0	10.674	0	-4.069	0	78.466
67		2	0	10.674	0	-4.069	0	61.788
68		3	0	10.674	0	-4.069	0	45.11
69		4	0	10.674	0	-4.069	0	28.431
70		5	0	10.674	0	-4.069	0	11.753
71	2 M15	1	0	13.978	0	-3.638	0	68.784
72		2	0	13.978	0	-3.638	0	46.943
73		3	0	13.978	0	-3.638	0	25.102
74		4	0	13.978	0	-3.638	0	3.261
75		5	0	13.978	0	-3.638	0	-18.58
76	2 M16	1	0	10.416	0	-4.051	0	19.686
77		2	0	10.416	0	-4.051	0	3.412
78		3	0	10.416	0	-4.051	0	-12.863
79		4	0	10.416	0	-4.051	0	-29.137
80		5	0	10.416	0	-4.051	0	-45.411
81	2 M17	1	0	6.712	0	-4.17	0	-8.848
82		2	0	6.712	0	-4.17	0	-19.336
83		3	0	6.712	0	-4.17	0	-29.824
84		4	0	6.712	0	-4.17	0	-40.312
85		5	0	6.712	0	-4.17	0	-50.801
86	2 M18	1	0	2.614	0	-4.313	0	-16.123
87		2	0	2.614	0	-4.313	0	-20.208
88		3	0	2.614	0	-4.313	0	-24.292
89		4	0	2.614	0	-4.313	0	-28.377
90		5	0	2.614	0	-4.313	0	-32.462
91	2 M19	1	0	9.172	0	-2.669	0	84.107
92		2	0	9.172	0	-2.669	0	69.776
93		3	0	9.172	0	-2.669	0	55.445
94		4	0	9.172	0	-2.669	0	41.115
95		5	0	9.172	0	-2.669	0	26.784

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	v Shear[k]	z Shear[k]	Torque[k-ft]	v-y Moment	z-z Moment[k-ft]
96	2 M20	1	0	13.772	0	-2.663	0	103.478
97		2	0	13.772	0	-2.663	0	81.959
98		3	0	13.772	0	-2.663	0	60.439
99		4	0	13.772	0	-2.663	0	38.92
100		5	0	13.772	0	-2.663	0	17.401
101	2 M21	1	0	17.316	0	-2.404	0	90.877
102		2	0	17.316	0	-2.404	0	63.821
103		3	0	17.316	0	-2.404	0	36.765
104		4	0	17.316	0	-2.404	0	9.709
105		5	0	17.316	0	-2.404	0	-17.347
106	2 M22	1	0	13.482	0	-2.633	0	31.647
107		2	0	13.482	0	-2.633	0	10.582
108		3	0	13.482	0	-2.633	0	-10.483
109		4	0	13.482	0	-2.633	0	-31.548
110		5	0	13.482	0	-2.633	0	-52.613
111	2 M23	1	0	8.943	0	-2.685	0	-5.972
112		2	0	8.943	0	-2.685	0	-19.945
113		3	0	8.943	0	-2.685	0	-33.918
114		4	0	8.943	0	-2.685	0	-47.891
115		5	0	8.943	0	-2.685	0	-61.864
116	2 M24	1	0	3.767	0	-2.759	0	-17.726
117		2	0	3.767	0	-2.759	0	-23.612
118		3	0	3.767	0	-2.759	0	-29.499
119		4	0	3.767	0	-2.759	0	-35.385
120		5	0	3.767	0	-2.759	0	-41.271
121	2 M25	1	0	10.098	0	-886	0	93.744
122		2	0	10.098	0	-886	0	77.965
123		3	0	10.098	0	-886	0	62.187
124		4	0	10.098	0	-886	0	46.408
125		5	0	10.098	0	-886	0	30.63
126	2 M26	1	0	15.206	0	-885	0	115.955
127		2	0	15.206	0	-885	0	92.196
128		3	0	15.206	0	-885	0	68.436
129		4	0	15.206	0	-885	0	44.677
130		5	0	15.206	0	-885	0	20.917
131	2 M27	1	0	18.877	0	-802	0	102.485
132		2	0	18.877	0	-802	0	72.989
133		3	0	18.877	0	-802	0	43.493
134		4	0	18.877	0	-802	0	13.997
135		5	0	18.877	0	-802	0	-15.499
136	2 M28	1	0	14.954	0	-872	0	38.749
137		2	0	14.954	0	-872	0	15.383
138		3	0	14.954	0	-872	0	-7.983
139		4	0	14.954	0	-872	0	-31.348
140		5	0	14.954	0	-872	0	-54.714
141	2 M29	1	0	10.117	0	-885	0	-3.173
142		2	0	10.117	0	-885	0	-18.982
143		3	0	10.117	0	-885	0	-34.79
144		4	0	10.117	0	-885	0	-50.598
145		5	0	10.117	0	-885	0	-66.407
146	2 M30	1	0	4.45	0	-907	0	-17.696
147		2	0	4.45	0	-907	0	-24.648
148		3	0	4.45	0	-907	0	-31.601
149		4	0	4.45	0	-907	0	-38.553
150		5	0	4.45	0	-907	0	-45.506
151	2 M31	1	0	10.065	0	1.02	0	93.392
152		2	0	10.065	0	1.02	0	77.666

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
153		3	0	10.065	0	1.02	0	61.939
154		4	0	10.065	0	1.02	0	46.212
155		5	0	10.065	0	1.02	0	30.486
156	2 M32	1	0	15.156	0	1.018	0	115.497
157		2	0	15.156	0	1.018	0	91.816
158		3	0	15.156	0	1.018	0	68.134
159		4	0	15.156	0	1.018	0	44.452
160		5	0	15.156	0	1.018	0	20.77
161	2 M33	1	0	18.822	0	.922	0	102.045
162		2	0	18.822	0	.922	0	72.636
163		3	0	18.822	0	.922	0	43.227
164		4	0	18.822	0	.922	0	13.818
165		5	0	18.822	0	.922	0	-15.591
166	2 M34	1	0	14.901	0	1.003	0	38.466
167		2	0	14.901	0	1.003	0	15.183
168		3	0	14.901	0	1.003	0	-8.101
169		4	0	14.901	0	1.003	0	-31.384
170		5	0	14.901	0	1.003	0	-54.667
171	2 M35	1	0	10.074	0	1.019	0	-3.303
172		2	0	10.074	0	1.019	0	-19.043
173		3	0	10.074	0	1.019	0	-34.783
174		4	0	10.074	0	1.019	0	-50.523
175		5	0	10.074	0	1.019	0	-66.264
176	2 M36	1	0	4.422	0	1.044	0	-17.716
177		2	0	4.422	0	1.044	0	-24.626
178		3	0	4.422	0	1.044	0	-31.536
179		4	0	4.422	0	1.044	0	-38.445
180		5	0	4.422	0	1.044	0	-45.355
181	2 M37	1	0	9.073	0	2.784	0	83.063
182		2	0	9.073	0	2.784	0	68.886
183		3	0	9.073	0	2.784	0	54.709
184		4	0	9.073	0	2.784	0	40.533
185		5	0	9.073	0	2.784	0	26.356
186	2 M38	1	0	13.616	0	2.778	0	102.113
187		2	0	13.616	0	2.778	0	80.838
188		3	0	13.616	0	2.778	0	59.562
189		4	0	13.616	0	2.778	0	38.287
190		5	0	13.616	0	2.778	0	17.011
191	2 M39	1	0	17.143	0	2.506	0	89.609
192		2	0	17.143	0	2.506	0	62.822
193		3	0	17.143	0	2.506	0	36.036
194		4	0	17.143	0	2.506	0	9.25
195		5	0	17.143	0	2.506	0	-17.536
196	2 M40	1	0	13.319	0	2.746	0	30.887
197		2	0	13.319	0	2.746	0	10.076
198		3	0	13.319	0	2.746	0	-10.735
199		4	0	13.319	0	2.746	0	-31.547
200		5	0	13.319	0	2.746	0	-52.358
201	2 M41	1	0	8.817	0	2.802	0	-6.249
202		2	0	8.817	0	2.802	0	-20.025
203		3	0	8.817	0	2.802	0	-33.801
204		4	0	8.817	0	2.802	0	-47.577
205		5	0	8.817	0	2.802	0	-61.354
206	2 M42	1	0	3.696	0	2.881	0	-17.712
207		2	0	3.696	0	2.881	0	-23.486
208		3	0	3.696	0	2.881	0	-29.261
209		4	0	3.696	0	2.881	0	-35.036

Member Section Forces (By Combination) (Continued)

LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
210		5	0	3.696	0	2.881	0
211	2	M43	1	0	7.136	0	4.164
212		2	0	7.136	0	4.164	0
213		3	0	7.136	0	4.164	0
214		4	0	7.136	0	4.164	0
215		5	0	7.136	0	4.164	0
216	2	M44	1	0	10.392	0	4.149
217		2	0	10.392	0	4.149	0
218		3	0	10.392	0	4.149	0
219		4	0	10.392	0	4.149	0
220		5	0	10.392	0	4.149	0
221	2	M45	1	0	13.662	0	3.705
222		2	0	13.662	0	3.705	0
223		3	0	13.662	0	3.705	0
224		4	0	13.662	0	3.705	0
225		5	0	13.662	0	3.705	0
226	2	M46	1	0	10.129	0	4.132
227		2	0	10.129	0	4.132	0
228		3	0	10.129	0	4.132	0
229		4	0	10.129	0	4.132	0
230		5	0	10.129	0	4.132	0
231	2	M47	1	0	6.521	0	4.258
232		2	0	6.521	0	4.258	0
233		3	0	6.521	0	4.258	0
234		4	0	6.521	0	4.258	0
235		5	0	6.521	0	4.258	0
236	2	M48	1	0	2.532	0	4.407
237		2	0	2.532	0	4.407	0
238		3	0	2.532	0	4.407	0
239		4	0	2.532	0	4.407	0
240		5	0	2.532	0	4.407	0
241	2	M49	1	0	3.632	0	4.98
242		2	0	3.632	0	4.98	0
243		3	0	3.632	0	4.98	0
244		4	0	3.632	0	4.98	0
245		5	0	3.632	0	4.98	0
246	2	M50	1	0	5.144	0	4.981
247		2	0	5.144	0	4.981	0
248		3	0	5.144	0	4.981	0
249		4	0	5.144	0	4.981	0
250		5	0	5.144	0	4.981	0
251	2	M51	1	0	7.264	0	4.335
252		2	0	7.264	0	4.335	0
253		3	0	7.264	0	4.335	0
254		4	0	7.264	0	4.335	0
255		5	0	7.264	0	4.335	0
256	2	M52	1	0	5.215	0	5.008
257		2	0	5.215	0	5.008	0
258		3	0	5.215	0	5.008	0
259		4	0	5.215	0	5.008	0
260		5	0	5.215	0	5.008	0
261	2	M53	1	0	3.243	0	5.217
262		2	0	3.243	0	5.217	0
263		3	0	3.243	0	5.217	0
264		4	0	3.243	0	5.217	0
265		5	0	3.243	0	5.217	0
266	2	M54	1	0	.973	0	5.439

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
267		2	0	.973	0	5.439	0	-11.698
268		3	0	.973	0	5.439	0	-13.219
269		4	0	.973	0	5.439	0	-14.74
270		5	0	.973	0	5.439	0	-16.261
271	2 M55	1	0	.968	0	5.214	0	7.428
272		2	0	.968	0	5.214	0	5.916
273		3	0	.968	0	5.214	0	4.403
274		4	0	.968	0	5.214	0	2.891
275		5	0	.968	0	5.214	0	1.378
276	2 M56	1	0	1.182	0	5.217	0	8.062
277		2	0	1.182	0	5.217	0	6.215
278		3	0	1.182	0	5.217	0	4.368
279		4	0	1.182	0	5.217	0	2.521
280		5	0	1.182	0	5.217	0	.674
281	2 M57	1	0	1.55	0	4.589	0	7.167
282		2	0	1.55	0	4.589	0	4.744
283		3	0	1.55	0	4.589	0	2.322
284		4	0	1.55	0	4.589	0	-.1
285		5	0	1.55	0	4.589	0	-2.522
286	2 M58	1	0	1.187	0	5.263	0	1.627
287		2	0	1.187	0	5.263	0	-.227
288		3	0	1.187	0	5.263	0	-2.082
289		4	0	1.187	0	5.263	0	-3.936
290		5	0	1.187	0	5.263	0	-5.791
291	2 M59	1	0	.749	0	5.506	0	-1.78
292		2	0	.749	0	5.506	0	-2.951
293		3	0	.749	0	5.506	0	-4.122
294		4	0	.749	0	5.506	0	-5.292
295		5	0	.749	0	5.506	0	-6.463
296	2 M60	1	0	.164	0	5.758	0	-2.615
297		2	0	.164	0	5.758	0	-2.872
298		3	0	.164	0	5.758	0	-3.128
299		4	0	.164	0	5.758	0	-3.385
300		5	0	.164	0	5.758	0	-3.641
301	2 M61	1	0	131.44	0	0	0	0
302		2	0	130.36	0	0	0	-98.175
303		3	0	129.28	0	0	0	-195.54
304		4	0	128.2	0	0	0	-292.096
305		5	0	127.12	0	0	0	-387.841
306	2 M62	1	0	125.246	0	5.803	0	-382.65
307		2	0	123.086	0	5.803	0	-568.898
308		3	0	120.926	0	5.803	0	-751.906
309		4	0	118.766	0	5.803	0	-931.674
310		5	0	116.606	0	5.803	0	-1108.202
311	2 M63	1	0	116.606	0	-3.416	0	-1108.212
312		2	0	114.446	0	-3.416	0	-1281.501
313		3	0	112.286	0	-3.416	0	-1451.549
314		4	0	110.126	0	-3.416	0	-1618.358
315		5	0	107.966	0	-3.416	0	-1781.926
316	2 M64	1	0	103.268	0	14.125	0	-1777.05
317		2	0	100.568	0	14.125	0	-1968.145
318		3	0	97.868	0	14.125	0	-2154.178
319		4	0	95.168	0	14.125	0	-2335.149
320		5	0	92.468	0	14.125	0	-2511.057
321	2 M65	1	0	92.468	0	-11.987	0	-2511.068
322		2	0	89.768	0	-11.987	0	-2681.913
323		3	0	87.068	0	-11.987	0	-2847.696

Member Section Forces (By Combination) (Continued)

LC Member Label	Sec	Axial[k]	v Shear[k]	z Shear[k]	Torque[k-ft]	v-v Moment...	z-z Moment[k-ft]
324	4	0	84.368	0	-11.987	0	-3008.416
325	5	0	81.668	0	-11.987	0	-3164.074
326	2	M66	1	0	73.628	0	-3160.033
327	2		0	70.928	0	19.886	-3295.554
328	3		0	68.228	0	19.886	-3426.013
329	4		0	65.528	0	19.886	-3551.409
330	5		0	62.828	0	19.886	-3671.743
331	2	M67	1	0	62.828	0	-3671.751
332	2		0	60.128	0	-18.295	-3787.022
333	3		0	57.428	0	-18.295	-3897.231
334	4		0	54.728	0	-18.295	-4002.377
335	5		0	52.028	0	-18.295	-4102.461
336	2	M68	1	0	42.107	0	-4099.818
337	2		0	39.407	0	23.166	-4176.237
338	3		0	36.707	0	23.166	-4247.593
339	4		0	34.007	0	23.166	-4313.887
340	5		0	31.307	0	23.166	-4375.118
341	2	M69	1	0	31.307	0	-4375.122
342	2		0	28.607	0	-22.33	-4431.291
343	3		0	25.907	0	-22.33	-4482.397
344	4		0	23.207	0	-22.33	-4528.441
345	5		0	20.507	0	-22.33	-4569.423
346	2	M70	1	0	9.659	0	-4568.544
347	2		0	6.959	0	23.904	-4584.123
348	3		0	4.259	0	23.904	-4594.639
349	4		0	1.559	0	23.904	-4600.093
350	5		0	-1.141	0	23.904	-4600.484
351	2	M71	1	0	-1.141	0	-4600.484
352	2		0	-3.841	0	-23.935	-4595.813
353	3		0	-6.541	0	-23.935	-4586.08
354	4		0	-9.241	0	-23.935	-4571.284
355	5		0	-11.941	0	-23.935	-4551.425
356	2	M72	1	0	-22.756	0	-4552.436
357	2		0	-25.456	0	22.124	-4507.236
358	3		0	-28.156	0	22.124	-4456.975
359	4		0	-30.856	0	22.124	-4401.651
360	5		0	-33.556	0	22.124	-4341.264
361	2	M73	1	0	-33.556	0	-4341.26
362	2		0	-36.256	0	-23.02	-4275.811
363	3		0	-38.956	0	-23.02	-4205.3
364	4		0	-41.656	0	-23.02	-4129.726
365	5		0	-44.356	0	-23.02	-4049.09
366	2	M74	1	0	-54.179	0	-4051.847
367	2		0	-56.879	0	17.925	-3947.73
368	3		0	-59.579	0	17.925	-3838.55
369	4		0	-62.279	0	17.925	-3724.309
370	5		0	-64.979	0	17.925	-3605.004
371	2	M75	1	0	-64.979	0	-3604.996
372	2		0	-67.679	0	-19.562	-3480.629
373	3		0	-70.379	0	-19.562	-3351.2
374	4		0	-73.079	0	-19.562	-3216.709
375	5		0	-75.779	0	-19.562	-3077.155
376	2	M76	1	0	-83.665	0	-3081.277
377	2		0	-86.365	0	11.464	-2921.874
378	3		0	-89.065	0	11.464	-2757.408
379	4		0	-91.765	0	11.464	-2587.88
380	5		0	-94.465	0	11.464	-2413.29

Member Section Forces (By Combination) (Continued)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
381	2 M77	1	0	-94.465	0	-13.631	0	-2413.279
382		2	0	-97.165	0	-13.631	0	-2233.626
383		3	0	-99.865	0	-13.631	0	-2048.912
384		4	0	-102.565	0	-13.631	0	-1859.134
385		5	0	-105.265	0	-13.631	0	-1664.295
386	2 M78	1	0	-109.647	0	2.778	0	-1669.204
387		2	0	-111.618	0	2.778	0	-1517.804
388		3	0	-113.589	0	2.778	0	-1363.708
389		4	0	-115.559	0	2.778	0	-1206.914
390		5	0	-117.53	0	2.778	0	-1047.424
391	2 M79	1	0	-117.53	0	-5.171	0	-1047.415
392		2	0	-119.501	0	-5.171	0	-885.229
393		3	0	-121.471	0	-5.171	0	-720.346
394		4	0	-123.442	0	-5.171	0	-552.766
395		5	0	-125.412	0	-5.171	0	-382.489
396	2 M80	1	0	-127.13	0	0	0	-387.682
397		2	0	-128.21	0	0	0	-291.975
398		3	0	-129.289	0	0	0	-195.459
399		4	0	-130.369	0	0	0	-98.134
400		5	0	-131.448	0	0	0	0
401	2 M81	1	0	122.759	0	0	0	0
402		2	0	121.632	0	0	0	-90.853
403		3	0	120.506	0	0	0	-180.868
404		4	0	119.379	0	0	0	-270.045
405		5	0	118.253	0	0	0	-358.385
406	2 M82	1	0	116.604	0	5.158	0	-358.407
407		2	0	114.351	0	5.158	0	-530.121
408		3	0	112.098	0	5.158	0	-698.486
409		4	0	109.845	0	5.158	0	-863.5
410		5	0	107.592	0	5.158	0	-1025.164
411	2 M83	1	0	107.592	0	-3.37	0	-1025.172
412		2	0	105.34	0	-3.37	0	-1183.486
413		3	0	103.087	0	-3.37	0	-1338.451
414		4	0	100.834	0	-3.37	0	-1490.066
415		5	0	98.581	0	-3.37	0	-1638.331
416	2 M84	1	0	95.418	0	12.789	0	-1638.393
417		2	0	92.602	0	12.789	0	-1813.135
418		3	0	89.786	0	12.789	0	-1982.642
419		4	0	86.97	0	12.789	0	-2146.915
420		5	0	84.154	0	12.789	0	-2305.954
421	2 M85	1	0	84.154	0	-11.19	0	-2305.962
422		2	0	81.338	0	-11.19	0	-2459.766
423		3	0	78.522	0	-11.19	0	-2608.336
424		4	0	75.706	0	-11.19	0	-2751.672
425		5	0	72.89	0	-11.19	0	-2889.773
426	2 M86	1	0	68.006	0	18.033	0	-2889.822
427		2	0	65.19	0	18.033	0	-3013.611
428		3	0	62.374	0	18.033	0	-3132.166
429		4	0	59.558	0	18.033	0	-3245.487
430		5	0	56.742	0	18.033	0	-3353.573
431	2 M87	1	0	56.742	0	-16.839	0	-3353.579
432		2	0	53.926	0	-16.839	0	-3456.431
433		3	0	51.11	0	-16.839	0	-3554.049
434		4	0	48.294	0	-16.839	0	-3646.432
435		5	0	45.478	0	-16.839	0	-3733.581
436	2 M88	1	0	39.377	0	21.031	0	-3733.608
437		2	0	36.561	0	21.031	0	-3804.184

Member Section Forces (By Combination) (Continued)

LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]
438	3	0	33.745	0	21.031	0	-3869.525
439	4	0	30.929	0	21.031	0	-3929.632
440	5	0	28.113	0	21.031	0	-3984.505
441	2	M89	1	0	28.113	0	-3984.508
442			2	0	25.297	0	-4034.146
443			3	0	22.481	0	-4078.55
444			4	0	19.665	0	-4117.72
445			5	0	16.849	0	-4151.656
446	2	M90	1	0	10.241	0	-4151.665
447			2	0	7.425	0	-4168.084
448			3	0	4.609	0	-4179.269
449			4	0	1.793	0	-4185.219
450			5	0	-1.023	0	-4185.936
451	2	M91	1	0	-1.023	0	-4185.936
452			2	0	-3.839	0	-4181.418
453			3	0	-6.655	0	-4171.666
454			4	0	-9.47	0	-4156.68
455			5	0	-12.286	0	-4136.46
456	2	M92	1	0	-18.878	0	-4136.45
457			2	0	-21.694	0	-4098.744
458			3	0	-24.51	0	-4055.804
459			4	0	-27.326	0	-4007.63
460			5	0	-30.142	0	-3954.221
461	2	M93	1	0	-30.142	0	-3954.218
462			2	0	-32.958	0	-3895.575
463			3	0	-35.774	0	-3831.698
464			4	0	-38.59	0	-3762.587
465			5	0	-41.406	0	-3688.242
466	2	M94	1	0	-47.449	0	-3688.213
467			2	0	-50.265	0	-3597.4
468			3	0	-53.081	0	-3501.353
469			4	0	-55.897	0	-3400.072
470			5	0	-58.713	0	-3293.557
471	2	M95	1	0	-58.713	0	-3293.55
472			2	0	-61.529	0	-3181.801
473			3	0	-64.345	0	-3064.817
474			4	0	-67.161	0	-2942.6
475			5	0	-69.977	0	-2815.148
476	2	M96	1	0	-74.733	0	-2815.096
477			2	0	-77.549	0	-2673.569
478			3	0	-80.365	0	-2526.807
479			4	0	-83.181	0	-2374.812
480			5	0	-85.997	0	-2217.581
481	2	M97	1	0	-85.997	0	-2217.573
482			2	0	-88.813	0	-2055.109
483			3	0	-91.629	0	-1887.411
484			4	0	-94.445	0	-1714.479
485			5	0	-97.261	0	-1536.312
486	2	M98	1	0	-100.273	0	-1536.25
487			2	0	-102.328	0	-1398.823
488			3	0	-104.384	0	-1258.607
489			4	0	-106.439	0	-1115.602
490			5	0	-108.494	0	-969.81
491	2	M99	1	0	-108.494	0	-969.803
492			2	0	-110.55	0	-821.222
493			3	0	-112.605	0	-669.854
494			4	0	-114.66	0	-515.696

Member Section Forces (By Combination) (Continued)

	LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
495			5	0	-116.716	0	-4.576	0	-358.751
496	2	M100	1	0	-118.43	0	0	0	-358.734
497			2	0	-119.556	0	0	0	-270.306
498			3	0	-120.681	0	0	0	-181.041
499			4	0	-121.807	0	0	0	-90.939
500			5	0	-122.933	0	0	0	0
501	2	M101	1	0	120.248	0	0	0	0
502			2	0	119.131	0	0	0	-88.211
503			3	0	118.015	0	0	0	-175.6
504			4	0	116.898	0	0	0	-262.165
505			5	0	115.781	0	0	0	-347.908
506	2	M102	1	0	113.832	0	5.01	0	-348.573
507			2	0	111.599	0	5.01	0	-514.716
508			3	0	109.366	0	5.01	0	-677.567
509			4	0	107.133	0	5.01	0	-837.127
510			5	0	104.9	0	5.01	0	-993.395
511	2	M103	1	0	104.9	0	-3.255	0	-993.402
512			2	0	102.667	0	-3.255	0	-1146.378
513			3	0	100.434	0	-3.255	0	-1296.064
514			4	0	98.201	0	-3.255	0	-1442.457
515			5	0	95.967	0	-3.255	0	-1585.559
516	2	M104	1	0	92.215	0	12.351	0	-1586.248
517			2	0	89.423	0	12.351	0	-1753.582
518			3	0	86.632	0	12.351	0	-1915.773
519			4	0	83.841	0	12.351	0	-2072.821
520			5	0	81.049	0	12.351	0	-2224.726
521	2	M105	1	0	81.049	0	-10.783	0	-2224.734
522			2	0	78.258	0	-10.783	0	-2371.495
523			3	0	75.467	0	-10.783	0	-2513.113
524			4	0	72.675	0	-10.783	0	-2649.588
525			5	0	69.884	0	-10.783	0	-2780.92
526	2	M106	1	0	65.08	0	17.328	0	-2781.385
527			2	0	62.288	0	17.328	0	-2898.722
528			3	0	59.497	0	17.328	0	-3010.917
529			4	0	56.705	0	17.328	0	-3117.968
530			5	0	53.914	0	17.328	0	-3219.876
531	2	M107	1	0	53.914	0	-16.155	0	-3219.882
532			2	0	51.123	0	-16.155	0	-3316.647
533			3	0	48.331	0	-16.155	0	-3408.269
534			4	0	45.54	0	-16.155	0	-3494.748
535			5	0	42.749	0	-16.155	0	-3576.083
536	2	M108	1	0	37.705	0	20.134	0	-3576.363
537			2	0	34.914	0	20.134	0	-3643.263
538			3	0	32.122	0	20.134	0	-3705.019
539			4	0	29.331	0	20.134	0	-3761.633
540			5	0	26.539	0	20.134	0	-3813.103
541	2	M109	1	0	26.539	0	-19.516	0	-3813.106
542			2	0	23.748	0	-19.516	0	-3859.434
543			3	0	20.957	0	-19.516	0	-3900.618
544			4	0	18.165	0	-19.516	0	-3936.659
545			5	0	15.374	0	-19.516	0	-3967.557
546	2	M110	1	0	10.203	0	20.795	0	-3967.647
547			2	0	7.411	0	20.795	0	-3983.874
548			3	0	4.62	0	20.795	0	-3994.958
549			4	0	1.829	0	20.795	0	-4000.898
550			5	0	-.963	0	20.795	0	-4001.696
551	2	M111	1	0	-.963	0	-20.818	0	-4001.696

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	v Shear[k]	z Shear[k]	Torque[k-ft]	v-v Moment[k-ft]	z-z Moment[k-ft]
552		2	0	-3.754	0	-20.818	0	-3997.351
553		3	0	-6.546	0	-20.818	0	-3987.862
554		4	0	-9.337	0	-20.818	0	-3973.23
555		5	0	-12.128	0	-20.818	0	-3953.456
556	2 M112	1	0	-17.294	0	19.348	0	-3953.352
557		2	0	-20.085	0	19.348	0	-3918.916
558		3	0	-22.877	0	19.348	0	-3879.338
559		4	0	-25.668	0	19.348	0	-3834.616
560		5	0	-28.459	0	19.348	0	-3784.751
561	2 M113	1	0	-28.459	0	-20.009	0	-3784.748
562		2	0	-31.251	0	-20.009	0	-3729.74
563		3	0	-34.042	0	-20.009	0	-3669.589
564		4	0	-36.834	0	-20.009	0	-3604.295
565		5	0	-39.625	0	-20.009	0	-3533.858
566	2 M114	1	0	-44.652	0	15.844	0	-3533.565
567		2	0	-47.443	0	15.844	0	-3448.723
568		3	0	-50.235	0	15.844	0	-3358.738
569		4	0	-53.026	0	15.844	0	-3263.609
570		5	0	-55.817	0	15.844	0	-3163.337
571	2 M115	1	0	-55.817	0	-17.051	0	-3163.331
572		2	0	-58.609	0	-17.051	0	-3057.917
573		3	0	-61.4	0	-17.051	0	-2947.359
574		4	0	-64.191	0	-17.051	0	-2831.658
575		5	0	-66.983	0	-17.051	0	-2710.814
576	2 M116	1	0	-71.752	0	10.335	0	-2710.336
577		2	0	-74.543	0	10.335	0	-2575.562
578		3	0	-77.335	0	10.335	0	-2435.644
579		4	0	-80.126	0	10.335	0	-2290.583
580		5	0	-82.918	0	10.335	0	-2140.379
581	2 M117	1	0	-82.918	0	-11.922	0	-2140.371
582		2	0	-85.709	0	-11.922	0	-1985.025
583		3	0	-88.5	0	-11.922	0	-1824.535
584		4	0	-91.292	0	-11.922	0	-1658.902
585		5	0	-94.083	0	-11.922	0	-1488.126
586	2 M118	1	0	-97.703	0	2.687	0	-1487.419
587		2	0	-99.74	0	2.687	0	-1354.662
588		3	0	-101.777	0	2.687	0	-1219.165
589		4	0	-103.814	0	2.687	0	-1080.928
590		5	0	-105.852	0	2.687	0	-939.952
591	2 M119	1	0	-105.852	0	-4.447	0	-939.945
592		2	0	-107.889	0	-4.447	0	-796.229
593		3	0	-109.926	0	-4.447	0	-649.773
594		4	0	-111.964	0	-4.447	0	-500.578
595		5	0	-114.001	0	-4.447	0	-348.642
596	2 M120	1	0	-115.869	0	0	0	-347.996
597		2	0	-116.985	0	0	0	-262.23
598		3	0	-118.101	0	0	0	-175.642
599		4	0	-119.217	0	0	0	-88.232
600		5	0	-120.333	0	0	0	0
601	2 M121	1	0	84.577	0	0	0	0
602		2	0	83.558	0	0	0	-61.412
603		3	0	82.539	0	0	0	-122.079
604		4	0	81.52	0	0	0	-182.002
605		5	0	80.501	0	0	0	-241.181
606	2 M122	1	0	79.482	0	3.119	0	-240.508
607		2	0	77.444	0	3.119	0	-355.142
608		3	0	75.405	0	3.119	0	-466.798

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
609		4	0	73.367	0	3.119	0	-575.477
610		5	0	71.329	0	3.119	0	-681.177
611	2 M123	1	0	71.329	0	-2.548	0	-681.18
612		2	0	69.291	0	-2.548	0	-783.903
613		3	0	67.253	0	-2.548	0	-883.649
614		4	0	65.215	0	-2.548	0	-980.417
615		5	0	63.177	0	-2.548	0	-1074.207
616	2 M124	1	0	63.887	0	8.068	0	-1073.59
617		2	0	61.339	0	8.068	0	-1187.937
618		3	0	58.791	0	8.068	0	-1297.631
619		4	0	56.244	0	8.068	0	-1402.673
620		5	0	53.696	0	8.068	0	-1503.061
621	2 M125	1	0	53.696	0	-7.562	0	-1503.064
622		2	0	51.149	0	-7.562	0	-1598.8
623		3	0	48.601	0	-7.562	0	-1689.884
624		4	0	46.053	0	-7.562	0	-1776.315
625		5	0	43.506	0	-7.562	0	-1858.093
626	2 M126	1	0	45.568	0	11.385	0	-1857.701
627		2	0	43.021	0	11.385	0	-1938.594
628		3	0	40.473	0	11.385	0	-2014.834
629		4	0	37.926	0	11.385	0	-2086.422
630		5	0	35.378	0	11.385	0	-2153.357
631	2 M127	1	0	35.378	0	-11.007	0	-2153.359
632		2	0	32.83	0	-11.007	0	-2215.642
633		3	0	30.283	0	-11.007	0	-2273.272
634		4	0	27.735	0	-11.007	0	-2326.249
635		5	0	25.188	0	-11.007	0	-2374.574
636	2 M128	1	0	27.522	0	13.296	0	-2374.358
637		2	0	24.974	0	13.296	0	-2422.293
638		3	0	22.427	0	13.296	0	-2465.576
639		4	0	19.879	0	13.296	0	-2504.207
640		5	0	17.331	0	13.296	0	-2538.185
641	2 M129	1	0	17.331	0	-13.098	0	-2538.186
642		2	0	14.784	0	-13.098	0	-2567.511
643		3	0	12.236	0	-13.098	0	-2592.183
644		4	0	9.689	0	-13.098	0	-2612.204
645		5	0	7.141	0	-13.098	0	-2627.571
646	2 M130	1	0	9.564	0	13.827	0	-2627.505
647		2	0	7.017	0	13.827	0	-2642.645
648		3	0	4.469	0	13.827	0	-2653.133
649		4	0	1.922	0	13.827	0	-2658.969
650		5	0	-0.626	0	13.827	0	-2660.152
651	2 M131	1	0	-0.626	0	-13.835	0	-2660.152
652		2	0	-3.174	0	-13.835	0	-2656.682
653		3	0	-5.721	0	-13.835	0	-2648.56
654		4	0	-8.269	0	-13.835	0	-2635.785
655		5	0	-10.817	0	-13.835	0	-2618.358
656	2 M132	1	0	-8.396	0	12.995	0	-2618.434
657		2	0	-10.944	0	12.995	0	-2600.774
658		3	0	-13.491	0	12.995	0	-2578.462
659		4	0	-16.039	0	12.995	0	-2551.497
660		5	0	-18.587	0	12.995	0	-2519.88
661	2 M133	1	0	-18.587	0	-13.208	0	-2519.879
662		2	0	-21.134	0	-13.208	0	-2483.609
663		3	0	-23.682	0	-13.208	0	-2442.687
664		4	0	-26.229	0	-13.208	0	-2397.112
665		5	0	-28.777	0	-13.208	0	-2346.884

Member Section Forces (By Combination) (Continued)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
666	2 M134	1	0	-26.453	0	10.811	0	-2347.111
667		2	0	-29.001	0	10.811	0	-2296.475
668		3	0	-31.548	0	10.811	0	-2241.186
669		4	0	-34.096	0	10.811	0	-2181.245
670		5	0	-36.644	0	10.811	0	-2116.651
671	2 M135	1	0	-36.644	0	-11.2	0	-2116.649
672		2	0	-39.191	0	-11.2	0	-2047.402
673		3	0	-41.739	0	-11.2	0	-1973.503
674		4	0	-44.286	0	-11.2	0	-1894.952
675		5	0	-46.834	0	-11.2	0	-1811.748
676	2 M136	1	0	-44.802	0	7.27	0	-1812.154
677		2	0	-47.349	0	7.27	0	-1728.008
678		3	0	-49.897	0	7.27	0	-1639.21
679		4	0	-52.445	0	7.27	0	-1545.76
680		5	0	-54.992	0	7.27	0	-1447.657
681	2 M137	1	0	-54.992	0	-7.784	0	-1447.654
682		2	0	-57.54	0	-7.784	0	-1344.898
683		3	0	-60.087	0	-7.784	0	-1237.49
684		4	0	-62.635	0	-7.784	0	-1125.43
685		5	0	-65.183	0	-7.784	0	-1008.717
686	2 M138	1	0	-64.634	0	2.161	0	-1009.35
687		2	0	-66.494	0	2.161	0	-921.959
688		3	0	-68.353	0	2.161	0	-832.09
689		4	0	-70.213	0	2.161	0	-739.742
690		5	0	-72.072	0	2.161	0	-644.915
691	2 M139	1	0	-72.072	0	-2.733	0	-644.913
692		2	0	-73.931	0	-2.733	0	-547.608
693		3	0	-75.791	0	-2.733	0	-447.825
694		4	0	-77.65	0	-2.733	0	-345.564
695		5	0	-79.51	0	-2.733	0	-240.824
696	2 M140	1	0	-80.646	0	0	0	-241.486
697		2	0	-81.665	0	0	0	-182.23
698		3	0	-82.684	0	0	0	-122.231
699		4	0	-83.702	0	0	0	-61.487
700		5	0	-84.721	0	0	0	0
701	2 M141	1	0	82.189	0	0	0	0
702		2	0	81.179	0	0	0	-59.14
703		3	0	80.169	0	0	0	-117.548
704		4	0	79.159	0	0	0	-175.225
705		5	0	78.149	0	0	0	-232.171
706	2 M142	1	0	77.07	0	3.019	0	-231.94
707		2	0	75.05	0	3.019	0	-342.075
708		3	0	73.03	0	3.019	0	-449.284
709		4	0	71.01	0	3.019	0	-553.569
710		5	0	68.99	0	3.019	0	-654.929
711	2 M143	1	0	68.99	0	-2.43	0	-654.931
712		2	0	66.97	0	-2.43	0	-753.366
713		3	0	64.95	0	-2.43	0	-848.876
714		4	0	62.93	0	-2.43	0	-941.462
715		5	0	60.91	0	-2.43	0	-1031.122
716	2 M144	1	0	61.535	0	7.746	0	-1030.953
717		2	0	59.01	0	7.746	0	-1140.046
718		3	0	56.485	0	7.746	0	-1244.569
719		4	0	53.96	0	7.746	0	-1344.522
720		5	0	51.435	0	7.746	0	-1439.904
721	2 M145	1	0	51.435	0	-7.227	0	-1439.907
722		2	0	48.91	0	-7.227	0	-1530.719

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
723		3	0	46.385	0	-7.227	0	-1616.961
724		4	0	43.86	0	-7.227	0	-1698.633
725		5	0	41.335	0	-7.227	0	-1775.735
726	2 M146	1	0	43.538	0	10.872	0	-1775.634
727		2	0	41.013	0	10.872	0	-1852.153
728		3	0	38.488	0	10.872	0	-1924.102
729		4	0	35.963	0	10.872	0	-1991.481
730		5	0	33.438	0	10.872	0	-2054.29
731	2 M147	1	0	33.438	0	-10.49	0	-2054.292
732		2	0	30.914	0	-10.49	0	-2112.531
733		3	0	28.389	0	-10.49	0	-2166.199
734		4	0	25.864	0	-10.49	0	-2215.297
735		5	0	23.339	0	-10.49	0	-2259.825
736	2 M148	1	0	26.378	0	12.652	0	-2259.784
737		2	0	23.853	0	12.652	0	-2305.242
738		3	0	21.328	0	12.652	0	-2346.131
739		4	0	18.803	0	12.652	0	-2382.449
740		5	0	16.278	0	12.652	0	-2414.196
741	2 M149	1	0	16.278	0	-12.452	0	-2414.197
742		2	0	13.753	0	-12.452	0	-2441.375
743		3	0	11.228	0	-12.452	0	-2463.982
744		4	0	8.703	0	-12.452	0	-2482.02
745		5	0	6.178	0	-12.452	0	-2495.487
746	2 M150	1	0	9.514	0	13.139	0	-2495.477
747		2	0	6.99	0	13.139	0	-2510.413
748		3	0	4.465	0	13.139	0	-2520.779
749		4	0	1.94	0	13.139	0	-2526.575
750		5	0	-5.85	0	13.139	0	-2527.801
751	2 M151	1	0	-5.85	0	-13.147	0	-2527.801
752		2	0	-3.11	0	-13.147	0	-2524.456
753		3	0	-5.635	0	-13.147	0	-2516.541
754		4	0	-8.16	0	-13.147	0	-2504.057
755		5	0	-10.685	0	-13.147	0	-2487.002
756	2 M152	1	0	-7.357	0	12.357	0	-2487.013
757		2	0	-9.882	0	12.357	0	-2471.411
758		3	0	-12.407	0	12.357	0	-2451.239
759		4	0	-14.932	0	12.357	0	-2426.496
760		5	0	-17.457	0	12.357	0	-2397.184
761	2 M153	1	0	-17.457	0	-12.571	0	-2397.183
762		2	0	-19.982	0	-12.571	0	-2363.3
763		3	0	-22.507	0	-12.571	0	-2324.847
764		4	0	-25.032	0	-12.571	0	-2281.824
765		5	0	-27.557	0	-12.571	0	-2234.231
766	2 M154	1	0	-24.554	0	10.305	0	-2234.275
767		2	0	-27.079	0	10.305	0	-2187.546
768		3	0	-29.604	0	10.305	0	-2136.248
769		4	0	-32.129	0	10.305	0	-2080.379
770		5	0	-34.654	0	10.305	0	-2019.94
771	2 M155	1	0	-34.654	0	-10.699	0	-2019.938
772		2	0	-37.179	0	-10.699	0	-1954.928
773		3	0	-39.704	0	-10.699	0	-1885.349
774		4	0	-42.229	0	-10.699	0	-1811.2
775		5	0	-44.754	0	-10.699	0	-1732.48
776	2 M156	1	0	-42.646	0	6.95	0	-1732.587
777		2	0	-45.171	0	6.95	0	-1653.113
778		3	0	-47.696	0	6.95	0	-1569.069
779		4	0	-50.22	0	6.95	0	-1480.455

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
780		5	0	-52.745	0	6.95	0	-1387.271
781	2 M157	1	0	-52.745	0	-7.476	0	-1387.268
782		2	0	-55.27	0	-7.476	0	-1289.514
783		3	0	-57.795	0	-7.476	0	-1187.19
784		4	0	-60.32	0	-7.476	0	-1080.295
785		5	0	-62.845	0	-7.476	0	-968.83
786	2 M158	1	0	-62.373	0	2.057	0	-969.003
787		2	0	-64.216	0	2.057	0	-885.387
788		3	0	-66.059	0	2.057	0	-799.337
789		4	0	-67.902	0	2.057	0	-710.853
790		5	0	-69.745	0	2.057	0	-619.933
791	2 M159	1	0	-69.745	0	-2.648	0	-619.931
792		2	0	-71.588	0	-2.648	0	-526.578
793		3	0	-73.43	0	-2.648	0	-430.79
794		4	0	-75.273	0	-2.648	0	-332.567
795		5	0	-77.116	0	-2.648	0	-231.91
796	2 M160	1	0	-78.178	0	0	0	-232.142
797		2	0	-79.188	0	0	0	-175.202
798		3	0	-80.197	0	0	0	-117.532
799		4	0	-81.207	0	0	0	-59.131
800		5	0	-82.216	0	0	0	0
801	2 M161	1	0	79.083	0	0	0	0
802		2	0	78.082	0	0	0	-56.383
803		3	0	77.081	0	0	0	-112.048
804		4	0	76.08	0	0	0	-166.994
805		5	0	75.079	0	0	0	-221.223
806	2 M162	1	0	74.154	0	2.902	0	-220.982
807		2	0	72.152	0	2.902	0	-325.957
808		3	0	70.151	0	2.902	0	-428.06
809		4	0	68.149	0	2.902	0	-527.29
810		5	0	66.147	0	2.902	0	-623.647
811	2 M163	1	0	66.147	0	-2.286	0	-623.65
812		2	0	64.145	0	-2.286	0	-717.134
813		3	0	62.143	0	-2.286	0	-807.747
814		4	0	60.141	0	-2.286	0	-895.486
815		5	0	58.14	0	-2.286	0	-980.353
816	2 M164	1	0	59.074	0	7.383	0	-980.17
817		2	0	56.572	0	7.383	0	-1083.891
818		3	0	54.07	0	7.383	0	-1183.123
819		4	0	51.568	0	7.383	0	-1277.867
820		5	0	49.065	0	7.383	0	-1368.122
821	2 M165	1	0	49.065	0	-6.844	0	-1368.125
822		2	0	46.563	0	-6.844	0	-1453.892
823		3	0	44.061	0	-6.844	0	-1535.17
824		4	0	41.558	0	-6.844	0	-1611.96
825		5	0	39.056	0	-6.844	0	-1684.261
826	2 M166	1	0	41.655	0	10.32	0	-1684.137
827		2	0	39.152	0	10.32	0	-1756.61
828		3	0	36.65	0	10.32	0	-1824.595
829		4	0	34.148	0	10.32	0	-1888.092
830		5	0	31.645	0	10.32	0	-1947.1
831	2 M167	1	0	31.645	0	-9.927	0	-1947.102
832		2	0	29.143	0	-9.927	0	-2001.622
833		3	0	26.641	0	-9.927	0	-2051.653
834		4	0	24.139	0	-9.927	0	-2097.196
835		5	0	21.636	0	-9.927	0	-2138.25
836	2 M168	1	0	25.312	0	11.977	0	-2138.186

Member Section Forces (By Combination) (Continued)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]	
837		2	0	22.809	0	11.977	0	-2181.345	
838		3	0	20.307	0	11.977	0	-2220.015	
839		4	0	17.805	0	11.977	0	-2254.197	
840		5	0	15.303	0	11.977	0	-2283.89	
841	2	M169	1	0	15.303	0	-11.773	0	-2283.891
842		2	0	12.8	0	-11.773	0	-2309.096	
843		3	0	10.298	0	-11.773	0	-2329.812	
844		4	0	7.796	0	-11.773	0	-2346.04	
845		5	0	5.293	0	-11.773	0	-2357.779	
846	2	M170	1	0	9.461	0	12.421	0	-2357.76
847		2	0	6.959	0	12.421	0	-2372.487	
848		3	0	4.457	0	12.421	0	-2382.726	
849		4	0	1.954	0	12.421	0	-2388.476	
850		5	0	-.548	0	12.421	0	-2389.737	
851	2	M171	1	0	-.548	0	-12.429	0	-2389.737
852		2	0	-3.05	0	-12.429	0	-2386.51	
853		3	0	-5.552	0	-12.429	0	-2378.794	
854		4	0	-8.055	0	-12.429	0	-2366.59	
855		5	0	-10.557	0	-12.429	0	-2349.898	
856	2	M172	1	0	-6.406	0	11.683	0	-2349.919
857		2	0	-8.908	0	11.683	0	-2336.185	
858		3	0	-11.41	0	11.683	0	-2317.962	
859		4	0	-13.912	0	11.683	0	-2295.251	
860		5	0	-16.415	0	11.683	0	-2268.051	
861	2	M173	1	0	-16.415	0	-11.902	0	-2268.05
862		2	0	-18.917	0	-11.902	0	-2236.362	
863		3	0	-21.419	0	-11.902	0	-2200.185	
864		4	0	-23.922	0	-11.902	0	-2159.52	
865		5	0	-26.424	0	-11.902	0	-2114.367	
866	2	M174	1	0	-22.803	0	9.754	0	-2114.435
867		2	0	-25.305	0	9.754	0	-2071.287	
868		3	0	-27.808	0	9.754	0	-2023.651	
869		4	0	-30.31	0	9.754	0	-1971.527	
870		5	0	-32.812	0	9.754	0	-1914.914	
871	2	M175	1	0	-32.812	0	-10.159	0	-1914.912
872		2	0	-35.315	0	-10.159	0	-1853.811	
873		3	0	-37.817	0	-10.159	0	-1788.221	
874		4	0	-40.319	0	-10.159	0	-1718.143	
875		5	0	-42.821	0	-10.159	0	-1643.576	
876	2	M176	1	0	-40.332	0	6.582	0	-1643.706
877		2	0	-42.835	0	6.582	0	-1569.116	
878		3	0	-45.337	0	6.582	0	-1490.036	
879		4	0	-47.839	0	6.582	0	-1406.469	
880		5	0	-50.342	0	6.582	0	-1318.412	
881	2	M177	1	0	-50.342	0	-7.128	0	-1318.41
882		2	0	-52.844	0	-7.128	0	-1225.865	
883		3	0	-55.346	0	-7.128	0	-1128.832	
884		4	0	-57.848	0	-7.128	0	-1027.311	
885		5	0	-60.351	0	-7.128	0	-921.301	
886	2	M178	1	0	-59.581	0	1.931	0	-921.487
887		2	0	-61.407	0	1.931	0	-842.289	
888		3	0	-63.233	0	1.931	0	-760.699	
889		4	0	-65.06	0	1.931	0	-676.719	
890		5	0	-66.886	0	1.931	0	-590.348	
891	2	M179	1	0	-66.886	0	-2.549	0	-590.346
892		2	0	-68.712	0	-2.549	0	-501.583	
893		3	0	-70.539	0	-2.549	0	-410.43	

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	v Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
894		4	0	-72.365	0	-2.549	0	-316.886
895		5	0	-74.191	0	-2.549	0	-220.951
896	2 M180	1	0	-75.106	0	0	0	-221.192
897		2	0	-76.107	0	0	0	-166.97
898		3	0	-77.107	0	0	0	-112.031
899		4	0	-78.107	0	0	0	-56.374
900		5	0	-79.108	0	0	0	0
901	2 M181	1	0	73.623	0	0	0	0
902		2	0	72.706	0	0	0	-52.02
903		3	0	71.789	0	0	0	-103.388
904		4	0	70.871	0	0	0	-154.104
905		5	0	69.954	0	0	0	-204.168
906	2 M182	1	0	69.45	0	2.748	0	-209.943
907		2	0	67.616	0	2.748	0	-307.398
908		3	0	65.781	0	2.748	0	-402.243
909		4	0	63.947	0	2.748	0	-494.481
910		5	0	62.113	0	2.748	0	-584.109
911	2 M183	1	0	62.113	0	-2.111	0	-584.112
912		2	0	60.278	0	-2.111	0	-671.132
913		3	0	58.444	0	-2.111	0	-755.544
914		4	0	56.61	0	-2.111	0	-837.348
915		5	0	54.775	0	-2.111	0	-916.543
916	2 M184	1	0	55.119	0	6.939	0	-921.961
917		2	0	52.826	0	6.939	0	-1017.898
918		3	0	50.533	0	6.939	0	-1109.759
919		4	0	48.24	0	6.939	0	-1197.544
920		5	0	45.947	0	6.939	0	-1281.254
921	2 M185	1	0	45.947	0	-6.385	0	-1281.257
922		2	0	43.654	0	-6.385	0	-1360.89
923		3	0	41.361	0	-6.385	0	-1436.448
924		4	0	39.068	0	-6.385	0	-1507.93
925		5	0	36.775	0	-6.385	0	-1575.336
926	2 M186	1	0	38.64	0	9.673	0	-1579.667
927		2	0	36.347	0	9.673	0	-1646.311
928		3	0	34.054	0	9.673	0	-1708.879
929		4	0	31.761	0	9.673	0	-1767.372
930		5	0	29.468	0	9.673	0	-1821.788
931	2 M187	1	0	29.468	0	-9.271	0	-1821.79
932		2	0	27.175	0	-9.271	0	-1872.131
933		3	0	24.882	0	-9.271	0	-1918.396
934		4	0	22.589	0	-9.271	0	-1960.586
935		5	0	20.296	0	-9.271	0	-1998.699
936	2 M188	1	0	23.313	0	11.203	0	-2001.469
937		2	0	21.02	0	11.203	0	-2040.87
938		3	0	18.727	0	11.203	0	-2076.195
939		4	0	16.434	0	11.203	0	-2107.444
940		5	0	14.141	0	11.203	0	-2134.618
941	2 M189	1	0	14.141	0	-10.995	0	-2134.619
942		2	0	11.848	0	-10.995	0	-2157.717
943		3	0	9.555	0	-10.995	0	-2176.739
944		4	0	7.262	0	-10.995	0	-2191.685
945		5	0	4.969	0	-10.995	0	-2202.556
946	2 M190	1	0	8.669	0	11.604	0	-2203.466
947		2	0	6.376	0	11.604	0	-2216.837
948		3	0	4.083	0	11.604	0	-2226.132
949		4	0	1.79	0	11.604	0	-2231.351
950		5	0	-5.03	0	11.604	0	-2232.494

Member Section Forces (By Combination) (Continued)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
951	2 M191	1	0	-5.03	0	-11.612	0	-2232.494
952		2	0	-2.796	0	-11.612	0	-2229.562
953		3	0	-5.089	0	-11.612	0	-2222.554
954		4	0	-7.382	0	-11.612	0	-2211.47
955		5	0	-9.675	0	-11.612	0	-2196.31
956	2 M192	1	0	-6.003	0	10.911	0	-2195.263
957		2	0	-8.296	0	10.911	0	-2182.554
958		3	0	-10.589	0	10.911	0	-2165.77
959		4	0	-12.882	0	10.911	0	-2144.91
960		5	0	-15.175	0	10.911	0	-2119.975
961	2 M193	1	0	-15.175	0	-11.134	0	-2119.974
962		2	0	-17.468	0	-11.134	0	-2090.962
963		3	0	-19.761	0	-11.134	0	-2057.875
964		4	0	-22.054	0	-11.134	0	-2020.712
965		5	0	-24.347	0	-11.134	0	-1979.474
966	2 M194	1	0	-21.401	0	9.109	0	-1976.582
967		2	0	-23.694	0	9.109	0	-1936.504
968		3	0	-25.987	0	9.109	0	-1892.35
969		4	0	-28.28	0	9.109	0	-1844.121
970		5	0	-30.573	0	9.109	0	-1791.815
971	2 M195	1	0	-30.573	0	-9.524	0	-1791.813
972		2	0	-32.866	0	-9.524	0	-1735.432
973		3	0	-35.159	0	-9.524	0	-1674.975
974		4	0	-37.452	0	-9.524	0	-1610.443
975		5	0	-39.745	0	-9.524	0	-1541.834
976	2 M196	1	0	-37.963	0	6.139	0	-1537.41
977		2	0	-40.256	0	6.139	0	-1467.893
978		3	0	-42.549	0	6.139	0	-1394.3
979		4	0	-44.842	0	6.139	0	-1316.632
980		5	0	-47.135	0	6.139	0	-1234.888
981	2 M197	1	0	-47.135	0	-6.702	0	-1234.885
982		2	0	-49.428	0	-6.702	0	-1149.065
983		3	0	-51.721	0	-6.702	0	-1059.17
984		4	0	-54.014	0	-6.702	0	-965.199
985		5	0	-56.306	0	-6.702	0	-867.152
986	2 M198	1	0	-56.083	0	1.78	0	-861.679
987		2	0	-57.757	0	1.78	0	-787.835
988		3	0	-59.43	0	1.78	0	-711.819
989		4	0	-61.104	0	1.78	0	-633.632
990		5	0	-62.777	0	1.78	0	-553.275
991	2 M199	1	0	-62.777	0	-2.419	0	-553.272
992		2	0	-64.451	0	-2.419	0	-470.743
993		3	0	-66.125	0	-2.419	0	-386.043
994		4	0	-67.798	0	-2.419	0	-299.172
995		5	0	-69.472	0	-2.419	0	-210.13
996	2 M200	1	0	-70.058	0	0	0	-204.362
997		2	0	-70.974	0	0	0	-154.248
998		3	0	-71.891	0	0	0	-103.484
999		4	0	-72.808	0	0	0	-52.068
1000		5	0	-73.725	0	0	0	0

SVC. I

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]	Footing
1	N1	Reaction	Reaction	Reaction				
2	N22	Reaction	Reaction	Reaction				
3	N43	Reaction	Reaction	Reaction				
4	N64	Reaction	Reaction	Reaction				
5	N85	Reaction	Reaction	Reaction				
6	N106	Reaction	Reaction	Reaction				
7	N127	Reaction	Reaction	Reaction				
8	N21	Reaction	Reaction	Reaction				
9	N42	Reaction	Reaction	Reaction				
10	N63	Reaction	Reaction	Reaction				
11	N84	Reaction	Reaction	Reaction				
12	N105	Reaction	Reaction	Reaction				
13	N126	Reaction	Reaction	Reaction				
14	N147	Reaction	Reaction	Reaction				

Member Section Forces (By Combination)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
1	3 M1	1	0	1.014	0	-4.113	0	6.932
2		2	0	1.014	0	-4.113	0	5.347
3		3	0	1.014	0	-4.113	0	3.762
4		4	0	1.014	0	-4.113	0	2.177
5		5	0	1.014	0	-4.113	0	.592
6	3 M2	1	0	1.101	0	-4.124	0	6.882
7		2	0	1.101	0	-4.124	0	5.161
8		3	0	1.101	0	-4.124	0	3.44
9		4	0	1.101	0	-4.124	0	1.719
10		5	0	1.101	0	-4.124	0	-.002
11	3 M3	1	0	1.525	0	-3.582	0	6.135
12		2	0	1.525	0	-3.582	0	3.752
13		3	0	1.525	0	-3.582	0	1.368
14		4	0	1.525	0	-3.582	0	-1.015
15		5	0	1.525	0	-3.582	0	-3.399
16	3 M4	1	0	1.062	0	-4.201	0	.588
17		2	0	1.062	0	-4.201	0	-1.072
18		3	0	1.062	0	-4.201	0	-2.732
19		4	0	1.062	0	-4.201	0	-4.393
20		5	0	1.062	0	-4.201	0	-6.053
21	3 M5	1	0	.677	0	-4.435	0	-2.184
22		2	0	.677	0	-4.435	0	-3.241
23		3	0	.677	0	-4.435	0	-4.298
24		4	0	.677	0	-4.435	0	-5.355
25		5	0	.677	0	-4.435	0	-6.412
26	3 M6	1	0	.133	0	-4.672	0	-2.692
27		2	0	.133	0	-4.672	0	-2.899
28		3	0	.133	0	-4.672	0	-3.107
29		4	0	.133	0	-4.672	0	-3.314
30		5	0	.133	0	-4.672	0	-3.522
31	3 M7	1	0	3.665	0	-3.91	0	29.251
32		2	0	3.665	0	-3.91	0	23.525
33		3	0	3.665	0	-3.91	0	17.799
34		4	0	3.665	0	-3.91	0	12.073
35		5	0	3.665	0	-3.91	0	6.347
36	3 M8	1	0	4.964	0	-3.915	0	33.411
37		2	0	4.964	0	-3.915	0	25.655
38		3	0	4.964	0	-3.915	0	17.899

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
39		4	0	4.964	0	-3.915	0	10.143
40		5	0	4.964	0	-3.915	0	2.387
41	3 M9	1	0	6.954	0	-3.381	0	28.677
42		2	0	6.954	0	-3.381	0	17.812
43		3	0	6.954	0	-3.381	0	6.947
44		4	0	6.954	0	-3.381	0	-3.919
45		5	0	6.954	0	-3.381	0	-14.784
46	3 M10	1	0	4.857	0	-3.965	0	3.139
47		2	0	4.857	0	-3.965	0	-4.45
48		3	0	4.857	0	-3.965	0	-12.038
49		4	0	4.857	0	-3.965	0	-19.627
50		5	0	4.857	0	-3.965	0	-27.216
51	3 M11	1	0	2.887	0	-4.159	0	-9.951
52		2	0	2.887	0	-4.159	0	-14.462
53		3	0	2.887	0	-4.159	0	-18.972
54		4	0	2.887	0	-4.159	0	-23.483
55		5	0	2.887	0	-4.159	0	-27.994
56	3 M12	1	0	.636	0	-4.357	0	-11.521
57		2	0	.636	0	-4.357	0	-12.515
58		3	0	.636	0	-4.357	0	-13.508
59		4	0	.636	0	-4.357	0	-14.502
60		5	0	.636	0	-4.357	0	-15.496
61	3 M13	1	0	6.687	0	-3.248	0	55.44
62		2	0	6.687	0	-3.248	0	44.991
63		3	0	6.687	0	-3.248	0	34.541
64		4	0	6.687	0	-3.248	0	24.092
65		5	0	6.687	0	-3.248	0	13.643
66	3 M14	1	0	9.463	0	-3.238	0	64.592
67		2	0	9.463	0	-3.238	0	49.806
68		3	0	9.463	0	-3.238	0	35.021
69		4	0	9.463	0	-3.238	0	20.236
70		5	0	9.463	0	-3.238	0	5.451
71	3 M15	1	0	12.306	0	-2.872	0	54.683
72		2	0	12.306	0	-2.872	0	35.455
73		3	0	12.306	0	-2.872	0	16.227
74		4	0	12.306	0	-2.872	0	-3
75		5	0	12.306	0	-2.872	0	-22.228
76	3 M16	1	0	8.94	0	-3.237	0	10.942
77		2	0	8.94	0	-3.237	0	-3.027
78		3	0	8.94	0	-3.237	0	-16.996
79		4	0	8.94	0	-3.237	0	-30.964
80		5	0	8.94	0	-3.237	0	-44.933
81	3 M17	1	0	5.517	0	-3.349	0	-13.099
82		2	0	5.517	0	-3.349	0	-21.72
83		3	0	5.517	0	-3.349	0	-30.34
84		4	0	5.517	0	-3.349	0	-38.961
85		5	0	5.517	0	-3.349	0	-47.582
86	3 M18	1	0	1.805	0	-3.475	0	-17.254
87		2	0	1.805	0	-3.475	0	-20.074
88		3	0	1.805	0	-3.475	0	-22.895
89		4	0	1.805	0	-3.475	0	-25.715
90		5	0	1.805	0	-3.475	0	-28.536
91	3 M19	1	0	8.375	0	-2.133	0	72.043
92		2	0	8.375	0	-2.133	0	58.958
93		3	0	8.375	0	-2.133	0	45.873
94		4	0	8.375	0	-2.133	0	32.787
95		5	0	8.375	0	-2.133	0	19.702

Member Section Forces (By Combination) (Continued)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
96	3 M20	1	0	12.208	0	-2.128	0	85.628
97		2	0	12.208	0	-2.128	0	66.553
98		3	0	12.208	0	-2.128	0	47.477
99		4	0	12.208	0	-2.128	0	28.402
100		5	0	12.208	0	-2.128	0	9.326
101	3 M21	1	0	15.21	0	-1.906	0	72.74
102		2	0	15.21	0	-1.906	0	48.974
103		3	0	15.21	0	-1.906	0	25.209
104		4	0	15.21	0	-1.906	0	1.444
105		5	0	15.21	0	-1.906	0	-22.322
106	3 M22	1	0	11.565	0	-2.106	0	20.131
107		2	0	11.565	0	-2.106	0	2.061
108		3	0	11.565	0	-2.106	0	-16.01
109		4	0	11.565	0	-2.106	0	-34.08
110		5	0	11.565	0	-2.106	0	-52.151
111	3 M23	1	0	7.387	0	-2.153	0	-11.553
112		2	0	7.387	0	-2.153	0	-23.096
113		3	0	7.387	0	-2.153	0	-34.639
114		4	0	7.387	0	-2.153	0	-46.182
115		5	0	7.387	0	-2.153	0	-57.725
116	3 M24	1	0	2.752	0	-2.218	0	-19.114
117		2	0	2.752	0	-2.218	0	-23.414
118		3	0	2.752	0	-2.218	0	-27.714
119		4	0	2.752	0	-2.218	0	-32.014
120		5	0	2.752	0	-2.218	0	-36.314
121	3 M25	1	0	9.196	0	-.71	0	80.315
122		2	0	9.196	0	-.71	0	65.947
123		3	0	9.196	0	-.71	0	51.578
124		4	0	9.196	0	-.71	0	37.209
125		5	0	9.196	0	-.71	0	22.841
126	3 M26	1	0	13.469	0	-.709	0	96.189
127		2	0	13.469	0	-.709	0	75.143
128		3	0	13.469	0	-.709	0	54.098
129		4	0	13.469	0	-.709	0	33.052
130		5	0	13.469	0	-.709	0	12.007
131	3 M27	1	0	16.563	0	-.637	0	82.394
132		2	0	16.563	0	-.637	0	56.514
133		3	0	16.563	0	-.637	0	30.634
134		4	0	16.563	0	-.637	0	4.754
135		5	0	16.563	0	-.637	0	-21.127
136	3 M28	1	0	12.828	0	-.698	0	25.87
137		2	0	12.828	0	-.698	0	5.826
138		3	0	12.828	0	-.698	0	-14.218
139		4	0	12.828	0	-.698	0	-34.262
140		5	0	12.828	0	-.698	0	-54.305
141	3 M29	1	0	8.387	0	-.71	0	-9.448
142		2	0	8.387	0	-.71	0	-22.552
143		3	0	8.387	0	-.71	0	-35.656
144		4	0	8.387	0	-.71	0	-48.76
145		5	0	8.387	0	-.71	0	-61.864
146	3 M30	1	0	3.329	0	-.729	0	-19.248
147		2	0	3.329	0	-.729	0	-24.45
148		3	0	3.329	0	-.729	0	-29.653
149		4	0	3.329	0	-.729	0	-34.855
150		5	0	3.329	0	-.729	0	-40.057
151	3 M31	1	0	9.166	0	.817	0	80.013
152		2	0	9.166	0	.817	0	65.691

Member Section Forces (By Combination) (Continued)

	LC Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]
153		3	0	9.166	0	.817	0	51.368
154		4	0	9.166	0	.817	0	37.046
155		5	0	9.166	0	.817	0	22.723
156	3 M32	1	0	13.425	0	.815	0	95.801
157		2	0	13.425	0	.815	0	74.825
158		3	0	13.425	0	.815	0	53.848
159		4	0	13.425	0	.815	0	32.871
160		5	0	13.425	0	.815	0	11.894
161	3 M33	1	0	16.515	0	.733	0	82.029
162		2	0	16.515	0	.733	0	56.224
163		3	0	16.515	0	.733	0	30.419
164		4	0	16.515	0	.733	0	4.614
165		5	0	16.515	0	.733	0	-21.191
166	3 M34	1	0	12.783	0	.803	0	25.642
167		2	0	12.783	0	.803	0	5.668
168		3	0	12.783	0	.803	0	-14.305
169		4	0	12.783	0	.803	0	-34.279
170		5	0	12.783	0	.803	0	-54.252
171	3 M35	1	0	8.349	0	.817	0	-9.548
172		2	0	8.349	0	.817	0	-22.594
173		3	0	8.349	0	.817	0	-35.64
174		4	0	8.349	0	.817	0	-48.686
175		5	0	8.349	0	.817	0	-61.732
176	3 M36	1	0	3.306	0	.838	0	-19.259
177		2	0	3.306	0	.838	0	-24.425
178		3	0	3.306	0	.838	0	-29.591
179		4	0	3.306	0	.838	0	-34.757
180		5	0	3.306	0	.838	0	-39.923
181	3 M37	1	0	8.286	0	2.224	0	71.146
182		2	0	8.286	0	2.224	0	58.199
183		3	0	8.286	0	2.224	0	45.253
184		4	0	8.286	0	2.224	0	32.306
185		5	0	8.286	0	2.224	0	19.359
186	3 M38	1	0	12.07	0	2.218	0	84.479
187		2	0	12.07	0	2.218	0	65.62
188		3	0	12.07	0	2.218	0	46.762
189		4	0	12.07	0	2.218	0	27.903
190		5	0	12.07	0	2.218	0	9.044
191	3 M39	1	0	15.059	0	1.987	0	71.699
192		2	0	15.059	0	1.987	0	48.169
193		3	0	15.059	0	1.987	0	24.638
194		4	0	15.059	0	1.987	0	1.108
195		5	0	15.059	0	1.987	0	-22.422
196	3 M40	1	0	11.426	0	2.197	0	19.537
197		2	0	11.426	0	2.197	0	1.683
198		3	0	11.426	0	2.197	0	-16.171
199		4	0	11.426	0	2.197	0	-34.024
200		5	0	11.426	0	2.197	0	-51.878
201	3 M41	1	0	7.281	0	2.248	0	-11.744
202		2	0	7.281	0	2.248	0	-23.121
203		3	0	7.281	0	2.248	0	-34.498
204		4	0	7.281	0	2.248	0	-45.875
205		5	0	7.281	0	2.248	0	-57.253
206	3 M42	1	0	2.693	0	2.316	0	-19.077
207		2	0	2.693	0	2.316	0	-23.285
208		3	0	2.693	0	2.316	0	-27.492
209		4	0	2.693	0	2.316	0	-31.699

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
210		5	0	2.693	0	2.316	0	-35.907
211	3 M43	1	0	6.546	0	3.312	0	53.974
212		2	0	6.546	0	3.312	0	43.745
213		3	0	6.546	0	3.312	0	33.516
214		4	0	6.546	0	3.312	0	23.287
215		5	0	6.546	0	3.312	0	13.058
216	3 M44	1	0	9.21	0	3.3	0	62.68
217		2	0	9.21	0	3.3	0	48.288
218		3	0	9.21	0	3.3	0	33.897
219		4	0	9.21	0	3.3	0	19.506
220		5	0	9.21	0	3.3	0	5.115
221	3 M45	1	0	12.029	0	2.924	0	53.086
222		2	0	12.029	0	2.924	0	34.291
223		3	0	12.029	0	2.924	0	15.496
224		4	0	12.029	0	2.924	0	-3.299
225		5	0	12.029	0	2.924	0	-22.094
226	3 M46	1	0	8.695	0	3.302	0	10.248
227		2	0	8.695	0	3.302	0	-3.337
228		3	0	8.695	0	3.302	0	-16.923
229		4	0	8.695	0	3.302	0	-30.508
230		5	0	8.695	0	3.302	0	-44.094
231	3 M47	1	0	5.359	0	3.42	0	-13.044
232		2	0	5.359	0	3.42	0	-21.417
233		3	0	5.359	0	3.42	0	-29.791
234		4	0	5.359	0	3.42	0	-38.165
235		5	0	5.359	0	3.42	0	-46.539
236	3 M48	1	0	1.742	0	3.552	0	-16.953
237		2	0	1.742	0	3.552	0	-19.674
238		3	0	1.742	0	3.552	0	-22.395
239		4	0	1.742	0	3.552	0	-25.117
240		5	0	1.742	0	3.552	0	-27.838
241	3 M49	1	0	3.376	0	3.937	0	26.858
242		2	0	3.376	0	3.937	0	21.583
243		3	0	3.376	0	3.937	0	16.309
244		4	0	3.376	0	3.937	0	11.035
245		5	0	3.376	0	3.937	0	5.76
246	3 M50	1	0	4.552	0	3.944	0	30.631
247		2	0	4.552	0	3.944	0	23.518
248		3	0	4.552	0	3.944	0	16.405
249		4	0	4.552	0	3.944	0	9.292
250		5	0	4.552	0	3.944	0	2.179
251	3 M51	1	0	6.425	0	3.397	0	26.346
252		2	0	6.425	0	3.397	0	16.306
253		3	0	6.425	0	3.397	0	6.267
254		4	0	6.425	0	3.397	0	-3.773
255		5	0	6.425	0	3.397	0	-13.812
256	3 M52	1	0	4.479	0	3.998	0	2.681
257		2	0	4.479	0	3.998	0	-4.318
258		3	0	4.479	0	3.998	0	-11.317
259		4	0	4.479	0	3.998	0	-18.316
260		5	0	4.479	0	3.998	0	-25.315
261	3 M53	1	0	2.65	0	4.198	0	-9.426
262		2	0	2.65	0	4.198	0	-13.567
263		3	0	2.65	0	4.198	0	-17.708
264		4	0	2.65	0	4.198	0	-21.85
265		5	0	2.65	0	4.198	0	-25.991
266	3 M54	1	0	.55	0	4.401	0	-10.829

Company : Calderwood Engineering
 Designer : Eric Calderwood
 Job Number : 053-br-12 ER-BRF 015-1(23)

Jamaica Vermont

July 21, 2013
 1:56 PM
 Checked By: _____

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]
267		2	0	.55	0	4.401	0	-11.689
268		3	0	.55	0	4.401	0	-12.548
269		4	0	.55	0	4.401	0	-13.408
270		5	0	.55	0	4.401	0	-14.268
271	3 M55	1	0	.878	0	4.112	0	6.271
272		2	0	.878	0	4.112	0	4.899
273		3	0	.878	0	4.112	0	3.527
274		4	0	.878	0	4.112	0	2.154
275		5	0	.878	0	4.112	0	.782
276	3 M56	1	0	1.025	0	4.123	0	6.461
277		2	0	1.025	0	4.123	0	4.858
278		3	0	1.025	0	4.123	0	3.256
279		4	0	1.025	0	4.123	0	1.654
280		5	0	1.025	0	4.123	0	.052
281	3 M57	1	0	1.374	0	3.593	0	5.592
282		2	0	1.374	0	3.593	0	3.446
283		3	0	1.374	0	3.593	0	1.299
284		4	0	1.374	0	3.593	0	-.848
285		5	0	1.374	0	3.593	0	-2.994
286	3 M58	1	0	1.014	0	4.201	0	.582
287		2	0	1.014	0	4.201	0	-1.002
288		3	0	1.014	0	4.201	0	-2.587
289		4	0	1.014	0	4.201	0	-4.172
290		5	0	1.014	0	4.201	0	-5.757
291	3 M59	1	0	.612	0	4.434	0	-2.286
292		2	0	.612	0	4.434	0	-3.242
293		3	0	.612	0	4.434	0	-4.198
294		4	0	.612	0	4.434	0	-5.154
295		5	0	.612	0	4.434	0	-6.11
296	3 M60	1	0	.063	0	4.667	0	-2.77
297		2	0	.063	0	4.667	0	-2.869
298		3	0	.063	0	4.667	0	-2.969
299		4	0	.063	0	4.667	0	-3.068
300		5	0	.063	0	4.667	0	-3.167
301	3 M61	1	0	112.131	0	0	0	0
302		2	0	111.224	0	0	0	-83.758
303		3	0	110.316	0	0	0	-166.836
304		4	0	109.409	0	0	0	-249.233
305		5	0	108.501	0	0	0	-330.949
306	3 M62	1	0	106.987	0	4.885	0	-326.858
307		2	0	105.172	0	4.885	0	-485.977
308		3	0	103.357	0	4.885	0	-642.372
309		4	0	101.542	0	4.885	0	-796.046
310		5	0	99.727	0	4.885	0	-946.996
311	3 M63	1	0	99.727	0	-2.994	0	-947.004
312		2	0	97.912	0	-2.994	0	-1095.233
313		3	0	96.097	0	-2.994	0	-1240.739
314		4	0	94.282	0	-2.994	0	-1383.523
315		5	0	92.467	0	-2.994	0	-1523.584
316	3 M64	1	0	88.302	0	12.019	0	-1519.731
317		2	0	86.033	0	12.019	0	-1683.17
318		3	0	83.765	0	12.019	0	-1842.355
319		4	0	81.496	0	12.019	0	-1997.287
320		5	0	79.227	0	12.019	0	-2147.964
321	3 M65	1	0	79.227	0	-10.317	0	-217.973
322		2	0	76.958	0	-10.317	0	-2294.396
323		3	0	74.69	0	-10.317	0	-2436.565

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
324		4	0	72.421	0	-10.317	0	-2574.481
325		5	0	70.152	0	-10.317	0	-2708.143
326	3 M66	1	0	62.965	0	16.979	0	-2704.929
327		2	0	60.696	0	16.979	0	-2820.861
328		3	0	58.427	0	16.979	0	-2932.538
329		4	0	56.159	0	16.979	0	-3039.962
330		5	0	53.89	0	16.979	0	-3143.133
331	3 M67	1	0	53.89	0	-15.705	0	-3143.139
332		2	0	51.621	0	-15.705	0	-3242.055
333		3	0	49.352	0	-15.705	0	-3336.718
334		4	0	47.084	0	-15.705	0	-3427.126
335		5	0	44.815	0	-15.705	0	-3513.28
336	3 M68	1	0	35.94	0	19.816	0	-3511.169
337		2	0	33.672	0	19.816	0	-3576.43
338		3	0	31.403	0	19.816	0	-3637.437
339		4	0	29.134	0	19.816	0	-3694.19
340		5	0	26.865	0	19.816	0	-3746.689
341	3 M69	1	0	26.865	0	-19.145	0	-3746.693
342		2	0	24.597	0	-19.145	0	-3794.938
343		3	0	22.328	0	-19.145	0	-3838.929
344		4	0	20.059	0	-19.145	0	-3878.667
345		5	0	17.79	0	-19.145	0	-3914.151
346	3 M70	1	0	8.094	0	20.474	0	-3913.447
347		2	0	5.826	0	20.474	0	-3926.497
348		3	0	3.557	0	20.474	0	-3935.294
349		4	0	1.288	0	20.474	0	-3939.836
350		5	0	-.981	0	20.474	0	-3940.124
351	3 M71	1	0	-.981	0	-20.499	0	-3940.124
352		2	0	-3.249	0	-20.499	0	-3936.159
353		3	0	-5.518	0	-20.499	0	-3927.939
354		4	0	-7.787	0	-20.499	0	-3915.466
355		5	0	-10.056	0	-20.499	0	-3898.739
356	3 M72	1	0	-19.722	0	18.97	0	-3899.548
357		2	0	-21.991	0	18.97	0	-3860.443
358		3	0	-24.259	0	18.97	0	-3817.083
359		4	0	-26.528	0	18.97	0	-3769.47
360		5	0	-28.797	0	18.97	0	-3717.603
361	3 M73	1	0	-28.797	0	-19.689	0	-3717.599
362		2	0	-31.066	0	-19.689	0	-3661.479
363		3	0	-33.334	0	-19.689	0	-3601.104
364		4	0	-35.603	0	-19.689	0	-3536.475
365		5	0	-37.872	0	-19.689	0	-3467.593
366	3 M74	1	0	-46.658	0	15.389	0	-3469.795
367		2	0	-48.927	0	15.389	0	-3380.185
368		3	0	-51.195	0	15.389	0	-3286.321
369		4	0	-53.464	0	15.389	0	-3188.203
370		5	0	-55.733	0	15.389	0	-3085.831
371	3 M75	1	0	-55.733	0	-16.699	0	-3085.824
372		2	0	-58.002	0	-16.699	0	-2979.199
373		3	0	-60.27	0	-16.699	0	-2868.319
374		4	0	-62.539	0	-16.699	0	-2753.186
375		5	0	-64.808	0	-16.699	0	-2633.799
376	3 M76	1	0	-71.854	0	9.87	0	-2637.075
377		2	0	-74.123	0	9.87	0	-2500.222
378		3	0	-76.392	0	9.87	0	-2359.115
379		4	0	-78.66	0	9.87	0	-2213.754
380		5	0	-80.929	0	9.87	0	-2064.14

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
381	3 M77	1	0	-80.929	0	-11.595	0	-2064.131
382		2	0	-83.198	0	-11.595	0	-1910.262
383		3	0	-85.467	0	-11.595	0	-1752.14
384		4	0	-87.735	0	-11.595	0	-1589.764
385		5	0	-90.004	0	-11.595	0	-1423.134
386	3 M78	1	0	-93.88	0	2.449	0	-1427.011
387		2	0	-95.536	0	2.449	0	-1297.405
388		3	0	-97.192	0	2.449	0	-1165.532
389		4	0	-98.847	0	2.449	0	-1031.394
390		5	0	-100.503	0	2.449	0	-894.989
391	3 M79	1	0	-100.503	0	-4.344	0	-894.982
392		2	0	-102.159	0	-4.344	0	-756.312
393		3	0	-103.815	0	-4.344	0	-615.376
394		4	0	-105.471	0	-4.344	0	-472.173
395		5	0	-107.127	0	-4.344	0	-326.705
396	3 M80	1	0	-108.505	0	0	0	-330.798
397		2	0	-109.412	0	0	0	-249.119
398		3	0	-110.319	0	0	0	-166.759
399		4	0	-111.226	0	0	0	-83.72
400		5	0	-112.133	0	0	0	0
401	3 M81	1	0	105.385	0	0	0	0
402		2	0	104.396	0	0	0	-77.986
403		3	0	103.407	0	0	0	-155.237
404		4	0	102.418	0	0	0	-231.753
405		5	0	101.429	0	0	0	-307.533
406	3 M82	1	0	100.342	0	4.371	0	-307.542
407		2	0	98.365	0	4.371	0	-455.28
408		3	0	96.387	0	4.371	0	-600.078
409		4	0	94.409	0	4.371	0	-741.934
410		5	0	92.431	0	4.371	0	-880.85
411	3 M83	1	0	92.431	0	-2.956	0	-880.855
412		2	0	90.454	0	-2.956	0	-1016.83
413		3	0	88.476	0	-2.956	0	-1149.865
414		4	0	86.498	0	-2.956	0	-1279.958
415		5	0	84.521	0	-2.956	0	-1407.11
416	3 M84	1	0	82.222	0	10.939	0	-1407.158
417		2	0	79.749	0	10.939	0	-1557.689
418		3	0	77.277	0	10.939	0	-1703.625
419		4	0	74.805	0	10.939	0	-1844.966
420		5	0	72.333	0	10.939	0	-1981.712
421	3 M85	1	0	72.333	0	-9.668	0	-1981.719
422		2	0	69.861	0	-9.668	0	-2113.87
423		3	0	67.389	0	-9.668	0	-2241.425
424		4	0	64.917	0	-9.668	0	-2364.386
425		5	0	62.444	0	-9.668	0	-2482.752
426	3 M86	1	0	58.669	0	15.463	0	-2482.793
427		2	0	56.197	0	15.463	0	-2589.547
428		3	0	53.725	0	15.463	0	-2691.705
429		4	0	51.253	0	15.463	0	-2789.269
430		5	0	48.781	0	15.463	0	-2882.238
431	3 M87	1	0	48.781	0	-14.509	0	-2882.243
432		2	0	46.309	0	-14.509	0	-2970.616
433		3	0	43.837	0	-14.509	0	-3054.394
434		4	0	41.364	0	-14.509	0	-3133.578
435		5	0	38.892	0	-14.509	0	-3208.166
436	3 M88	1	0	34.059	0	18.058	0	-3208.19
437		2	0	31.587	0	18.058	0	-3269.198

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	v Shea...	z Shear[k]	Torque[k-ft]	v-v Moment...	z-z Moment[k-ft]
438		3	0	29.114	0	18.058	0	-3325.612
439		4	0	26.642	0	18.058	0	-3377.431
440		5	0	24.17	0	18.058	0	-3424.654
441	3 M89	1	0	24.17	0	-17.554	0	-3424.657
442		2	0	21.698	0	-17.554	0	-3467.286
443		3	0	19.226	0	-17.554	0	-3505.319
444		4	0	16.754	0	-17.554	0	-3538.757
445		5	0	14.282	0	-17.554	0	-3567.601
446	3 M90	1	0	9.008	0	18.697	0	-3567.608
447		2	0	6.536	0	18.697	0	-3582.055
448		3	0	4.064	0	18.697	0	-3591.907
449		4	0	1.592	0	18.697	0	-3597.164
450		5	0	-.88	0	18.697	0	-3597.825
451	3 M91	1	0	-.88	0	-18.716	0	-3597.825
452		2	0	-3.352	0	-18.716	0	-3593.892
453		3	0	-5.824	0	-18.716	0	-3585.363
454		4	0	-8.296	0	-18.716	0	-3572.24
455		5	0	-10.769	0	-18.716	0	-3554.521
456	3 M92	1	0	-16.027	0	17.401	0	-3554.513
457		2	0	-18.499	0	17.401	0	-3522.425
458		3	0	-20.972	0	17.401	0	-3485.741
459		4	0	-23.444	0	17.401	0	-3444.463
460		5	0	-25.916	0	17.401	0	-3398.59
461	3 M93	1	0	-25.916	0	-17.94	0	-3398.587
462		2	0	-28.388	0	-17.94	0	-3348.119
463		3	0	-30.86	0	-17.94	0	-3293.055
464		4	0	-33.332	0	-17.94	0	-3233.397
465		5	0	-35.804	0	-17.94	0	-3169.144
466	3 M94	1	0	-40.588	0	14.226	0	-3169.119
467		2	0	-43.06	0	14.226	0	-3091.379
468		3	0	-45.532	0	14.226	0	-3009.044
469		4	0	-48.004	0	14.226	0	-2922.114
470		5	0	-50.476	0	14.226	0	-2830.589
471	3 M95	1	0	-50.476	0	-15.208	0	-2830.584
472		2	0	-52.948	0	-15.208	0	-2734.464
473		3	0	-55.421	0	-15.208	0	-2633.749
474		4	0	-57.893	0	-15.208	0	-2528.439
475		5	0	-60.365	0	-15.208	0	-2418.534
476	3 M96	1	0	-64.029	0	9.265	0	-2418.491
477		2	0	-66.501	0	9.265	0	-2297.18
478		3	0	-68.973	0	9.265	0	-2171.274
479		4	0	-71.445	0	9.265	0	-2040.774
480		5	0	-73.917	0	9.265	0	-1905.678
481	3 M97	1	0	-73.917	0	-10.552	0	-1905.671
482		2	0	-76.389	0	-10.552	0	-1765.98
483		3	0	-78.862	0	-10.552	0	-1621.695
484		4	0	-81.334	0	-10.552	0	-1472.814
485		5	0	-83.806	0	-10.552	0	-1319.338
486	3 M98	1	0	-85.982	0	2.453	0	-1319.291
487		2	0	-87.787	0	2.453	0	-1201.421
488		3	0	-89.591	0	2.453	0	-1081.103
489		4	0	-91.395	0	2.453	0	-958.338
490		5	0	-93.2	0	2.453	0	-833.124
491	3 M99	1	0	-93.2	0	-3.871	0	-833.119
492		2	0	-95.004	0	-3.871	0	-705.458
493		3	0	-96.808	0	-3.871	0	-575.349
494		4	0	-98.613	0	-3.871	0	-442.792

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
495		5	0	-100.417	0	-3.871	0	-307.788
496	3 M100	1	0	-101.564	0	0	0	-307.783
497		2	0	-102.552	0	0	0	-231.939
498		3	0	-103.541	0	0	0	-155.36
499		4	0	-104.529	0	0	0	-78.047
500		5	0	-105.518	0	0	0	0
501	3 M101	1	0	103.741	0	0	0	0
502		2	0	102.761	0	0	0	-76.096
503		3	0	101.781	0	0	0	-151.47
504		4	0	100.801	0	0	0	-226.122
505		5	0	99.82	0	0	0	-300.051
506	3 M102	1	0	98.396	0	4.262	0	-300.612
507		2	0	96.436	0	4.262	0	-444.203
508		3	0	94.475	0	4.262	0	-584.904
509		4	0	92.515	0	4.262	0	-722.716
510		5	0	90.555	0	4.262	0	-857.638
511	3 M103	1	0	90.555	0	-2.872	0	-857.644
512		2	0	88.594	0	-2.872	0	-989.676
513		3	0	86.634	0	-2.872	0	-1118.819
514		4	0	84.673	0	-2.872	0	-1245.073
515		5	0	82.713	0	-2.872	0	-1368.436
516	3 M104	1	0	79.723	0	10.608	0	-1369.02
517		2	0	77.273	0	10.608	0	-1513.652
518		3	0	74.822	0	10.608	0	-1653.769
519		4	0	72.372	0	10.608	0	-1789.371
520		5	0	69.921	0	10.608	0	-1920.458
521	3 M105	1	0	69.921	0	-9.362	0	-1920.464
522		2	0	67.471	0	-9.362	0	-2047.036
523		3	0	65.02	0	-9.362	0	-2169.092
524		4	0	62.569	0	-9.362	0	-2286.634
525		5	0	60.119	0	-9.362	0	-2399.66
526	3 M106	1	0	56.276	0	14.916	0	-2400.054
527		2	0	53.825	0	14.916	0	-2501.484
528		3	0	51.375	0	14.916	0	-2598.399
529		4	0	48.924	0	14.916	0	-2690.799
530		5	0	46.473	0	14.916	0	-2778.684
531	3 M107	1	0	46.473	0	-13.979	0	-2778.689
532		2	0	44.023	0	-13.979	0	-2862.058
533		3	0	41.572	0	-13.979	0	-2940.913
534		4	0	39.122	0	-13.979	0	-3015.252
535		5	0	36.671	0	-13.979	0	-3085.077
536	3 M108	1	0	32.67	0	17.353	0	-3085.316
537		2	0	30.219	0	17.353	0	-3143.252
538		3	0	27.769	0	17.353	0	-3196.674
539		4	0	25.318	0	17.353	0	-3245.58
540		5	0	22.868	0	17.353	0	-3289.972
541	3 M109	1	0	22.868	0	-16.858	0	-3289.974
542		2	0	20.417	0	-16.858	0	-3329.851
543		3	0	17.967	0	-16.858	0	-3365.212
544		4	0	15.516	0	-16.858	0	-3396.058
545		5	0	13.066	0	-16.858	0	-3422.389
546	3 M110	1	0	8.972	0	17.941	0	-3422.466
547		2	0	6.521	0	17.941	0	-3436.739
548		3	0	4.071	0	17.941	0	-3446.497
549		4	0	1.62	0	17.941	0	-3451.739
550		5	0	-.83	0	17.941	0	-3452.466
551	3 M111	1	0	-.83	0	-17.96	0	-3452.466

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
552		2	0	-3.281	0	-17.96	0	-3448.679
553		3	0	-5.732	0	-17.96	0	-3440.376
554		4	0	-8.182	0	-17.96	0	-3427.558
555		5	0	-10.633	0	-17.96	0	-3410.225
556	3 M112	1	0	-14.723	0	16.714	0	-3410.136
557		2	0	-17.173	0	16.714	0	-3380.752
558		3	0	-19.624	0	16.714	0	-3346.854
559		4	0	-22.074	0	16.714	0	-3308.44
560		5	0	-24.525	0	16.714	0	-3265.511
561	3 M113	1	0	-24.525	0	-17.243	0	-3265.508
562		2	0	-26.975	0	-17.243	0	-3218.064
563		3	0	-29.426	0	-17.243	0	-3166.105
564		4	0	-31.876	0	-17.243	0	-3109.631
565		5	0	-34.327	0	-17.243	0	-3048.641
566	3 M114	1	0	-38.317	0	13.712	0	-3048.391
567		2	0	-40.767	0	13.712	0	-2975.535
568		3	0	-43.218	0	13.712	0	-2898.165
569		4	0	-45.668	0	13.712	0	-2816.279
570		5	0	-48.119	0	13.712	0	-2729.877
571	3 M115	1	0	-48.119	0	-14.675	0	-2729.872
572		2	0	-50.569	0	-14.675	0	-2638.956
573		3	0	-53.02	0	-14.675	0	-2543.525
574		4	0	-55.47	0	-14.675	0	-2443.579
575		5	0	-57.921	0	-14.675	0	-2339.118
576	3 M116	1	0	-61.739	0	8.975	0	-2338.713
577		2	0	-64.19	0	8.975	0	-2222.701
578		3	0	-66.64	0	8.975	0	-2102.174
579		4	0	-69.091	0	8.975	0	-1977.131
580		5	0	-71.541	0	8.975	0	-1847.574
581	3 M117	1	0	-71.541	0	-10.237	0	-1847.568
582		2	0	-73.992	0	-10.237	0	-1713.496
583		3	0	-76.442	0	-10.237	0	-1574.908
584		4	0	-78.893	0	-10.237	0	-1431.806
585		5	0	-81.343	0	-10.237	0	-1284.189
586	3 M118	1	0	-84.217	0	2.382	0	-1283.59
587		2	0	-86.005	0	2.382	0	-1169.136
588		3	0	-87.794	0	2.382	0	-1052.276
589		4	0	-89.582	0	2.382	0	-933.011
590		5	0	-91.371	0	2.382	0	-811.341
591	3 M119	1	0	-91.371	0	-3.776	0	-811.336
592		2	0	-93.159	0	-3.776	0	-687.261
593		3	0	-94.948	0	-3.776	0	-560.781
594		4	0	-96.736	0	-3.776	0	-431.895
595		5	0	-98.525	0	-3.776	0	-300.605
596	3 M120	1	0	-99.873	0	0	0	-300.06
597		2	0	-100.853	0	0	0	-226.128
598		3	0	-101.833	0	0	0	-151.473
599		4	0	-102.813	0	0	0	-76.098
600		5	0	-103.792	0	0	0	0
601	3 M121	1	0	73.333	0	0	0	0
602		2	0	72.42	0	0	0	-53.237
603		3	0	71.507	0	0	0	-105.806
604		4	0	70.594	0	0	0	-157.709
605		5	0	69.681	0	0	0	-208.944
606	3 M122	1	0	69.144	0	2.685	0	-208.338
607		2	0	67.318	0	2.685	0	-308.023
608		3	0	65.491	0	2.685	0	-405.04

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment...	z-z Moment[k-ft]
609		4	0	63.665	0	2.685	0	-499.388
610		5	0	61.839	0	2.685	0	-591.069
611	3 M123	1	0	61.839	0	-2.232	0	-591.071
612		2	0	60.013	0	-2.232	0	-680.083
613		3	0	58.186	0	-2.232	0	-766.428
614		4	0	56.36	0	-2.232	0	-850.104
615		5	0	54.534	0	-2.232	0	-931.112
616	3 M124	1	0	55.631	0	6.98	0	-930.559
617		2	0	53.348	0	6.98	0	-1030.07
618		3	0	51.065	0	6.98	0	-1125.413
619		4	0	48.782	0	6.98	0	-1216.586
620		5	0	46.499	0	6.98	0	-1303.59
621	3 M125	1	0	46.499	0	-6.576	0	-1303.592
622		2	0	44.217	0	-6.576	0	-1386.427
623		3	0	41.934	0	-6.576	0	-1465.093
624		4	0	39.651	0	-6.576	0	-1539.59
625		5	0	37.368	0	-6.576	0	-1609.918
626	3 M126	1	0	39.734	0	9.855	0	-1609.57
627		2	0	37.451	0	9.855	0	-1680.05
628		3	0	35.169	0	9.855	0	-1746.361
629		4	0	32.886	0	9.855	0	-1808.503
630		5	0	30.603	0	9.855	0	-1866.477
631	3 M127	1	0	30.603	0	-9.553	0	-1866.478
632		2	0	28.32	0	-9.553	0	-1920.282
633		3	0	26.037	0	-9.553	0	-1969.917
634		4	0	23.755	0	-9.553	0	-2015.384
635		5	0	21.472	0	-9.553	0	-2056.681
636	3 M128	1	0	24.116	0	11.515	0	-2056.491
637		2	0	21.834	0	11.515	0	-2098.449
638		3	0	19.551	0	11.515	0	-2136.238
639		4	0	17.268	0	11.515	0	-2169.859
640		5	0	14.985	0	11.515	0	-2199.31
641	3 M129	1	0	14.985	0	-11.356	0	-2199.311
642		2	0	12.702	0	-11.356	0	-2224.593
643		3	0	10.42	0	-11.356	0	-2245.706
644		4	0	8.137	0	-11.356	0	-2262.651
645		5	0	5.854	0	-11.356	0	-2275.426
646	3 M130	1	0	8.589	0	11.98	0	-2275.368
647		2	0	6.306	0	11.98	0	-2288.97
648		3	0	4.024	0	11.98	0	-2298.403
649		4	0	1.741	0	11.98	0	-2303.666
650		5	0	-0.542	0	11.98	0	-2304.761
651	3 M131	1	0	-0.542	0	-11.986	0	-2304.761
652		2	0	-2.825	0	-11.986	0	-2301.687
653		3	0	-5.108	0	-11.986	0	-2294.443
654		4	0	-7.39	0	-11.986	0	-2283.031
655		5	0	-9.673	0	-11.986	0	-2267.45
656	3 M132	1	0	-6.941	0	11.267	0	-2267.516
657		2	0	-9.224	0	11.267	0	-2252.756
658		3	0	-11.507	0	11.267	0	-2233.826
659		4	0	-13.789	0	11.267	0	-2210.728
660		5	0	-16.072	0	11.267	0	-2183.46
661	3 M133	1	0	-16.072	0	-11.438	0	-2183.459
662		2	0	-18.355	0	-11.438	0	-2152.023
663		3	0	-20.638	0	-11.438	0	-2116.417
664		4	0	-22.921	0	-11.438	0	-2076.643
665		5	0	-25.204	0	-11.438	0	-2032.7

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	v Shea...	z Shear[k]	Torque[k-ft]	v-v Moment...	z-z Moment[k-ft]
666	3 M134	1	0	-22.57	0	9.384	0	-2032.899
667		2	0	-24.853	0	9.384	0	-1989.596
668		3	0	-27.136	0	9.384	0	-1942.123
669		4	0	-29.419	0	9.384	0	-1890.481
670		5	0	-31.702	0	9.384	0	-1834.671
671	3 M135	1	0	-31.702	0	-9.694	0	-1834.669
672		2	0	-33.984	0	-9.694	0	-1774.69
673		3	0	-36.267	0	-9.694	0	-1710.541
674		4	0	-38.55	0	-9.694	0	-1642.224
675		5	0	-40.833	0	-9.694	0	-1569.738
676	3 M136	1	0	-38.499	0	6.323	0	-1570.098
677		2	0	-40.782	0	6.323	0	-1497.705
678		3	0	-43.064	0	6.323	0	-1421.144
679		4	0	-45.347	0	6.323	0	-1340.413
680		5	0	-47.63	0	6.323	0	-1255.513
681	3 M137	1	0	-47.63	0	-6.733	0	-1255.511
682		2	0	-49.913	0	-6.733	0	-1166.442
683		3	0	-52.196	0	-6.733	0	-1073.204
684		4	0	-54.478	0	-6.733	0	-975.798
685		5	0	-56.761	0	-6.733	0	-874.222
686	3 M138	1	0	-55.815	0	1.895	0	-874.79
687		2	0	-57.481	0	1.895	0	-799.283
688		3	0	-59.148	0	1.895	0	-721.555
689		4	0	-60.814	0	1.895	0	-641.606
690		5	0	-62.48	0	1.895	0	-559.436
691	3 M139	1	0	-62.48	0	-2.35	0	-559.434
692		2	0	-64.146	0	-2.35	0	-475.044
693		3	0	-65.812	0	-2.35	0	-388.433
694		4	0	-67.478	0	-2.35	0	-299.601
695		5	0	-69.144	0	-2.35	0	-208.548
696	3 M140	1	0	-69.785	0	0	0	-209.145
697		2	0	-70.697	0	0	0	-157.859
698		3	0	-71.61	0	0	0	-105.905
699		4	0	-72.523	0	0	0	-53.286
700		5	0	-73.436	0	0	0	0
701	3 M141	1	0	71.543	0	0	0	0
702		2	0	70.638	0	0	0	-51.47
703		3	0	69.733	0	0	0	-102.284
704		4	0	68.828	0	0	0	-152.443
705		5	0	67.923	0	0	0	-201.947
706	3 M142	1	0	67.309	0	2.61	0	-201.725
707		2	0	65.499	0	2.61	0	-297.877
708		3	0	63.689	0	2.61	0	-391.409
709		4	0	61.879	0	2.61	0	-482.32
710		5	0	60.069	0	2.61	0	-570.61
711	3 M143	1	0	60.069	0	-2.137	0	-570.611
712		2	0	58.259	0	-2.137	0	-656.281
713		3	0	56.449	0	-2.137	0	-739.329
714		4	0	54.639	0	-2.137	0	-819.756
715		5	0	52.829	0	-2.137	0	-897.563
716	3 M144	1	0	53.799	0	6.729	0	-897.399
717		2	0	51.536	0	6.729	0	-992.727
718		3	0	49.274	0	6.729	0	-1083.96
719		4	0	47.011	0	6.729	0	-1171.097
720		5	0	44.749	0	6.729	0	-1254.14
721	3 M145	1	0	44.749	0	-6.313	0	-1254.142
722		2	0	42.486	0	-6.313	0	-1333.089

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
723		3	0	40.224	0	-6.313	0	-1407.941
724		4	0	37.961	0	-6.313	0	-1478.698
725		5	0	35.699	0	-6.313	0	-1545.36
726	3 M146	1	0	38.121	0	9.452	0	-1545.265
727		2	0	35.859	0	9.452	0	-1612.217
728		3	0	33.596	0	9.452	0	-1675.074
729		4	0	31.334	0	9.452	0	-1733.835
730		5	0	29.071	0	9.452	0	-1788.502
731	3 M147	1	0	29.071	0	-9.146	0	-1788.503
732		2	0	26.809	0	-9.146	0	-1839.075
733		3	0	24.546	0	-9.146	0	-1885.551
734		4	0	22.284	0	-9.146	0	-1927.932
735		5	0	20.021	0	-9.146	0	-1966.218
736	3 M148	1	0	23.199	0	11.006	0	-1966.18
737		2	0	20.936	0	11.006	0	-2006.123
738		3	0	18.674	0	11.006	0	-2041.97
739		4	0	16.411	0	11.006	0	-2073.722
740		5	0	14.149	0	11.006	0	-2101.38
741	3 M149	1	0	14.149	0	-10.846	0	-2101.38
742		2	0	11.886	0	-10.846	0	-2124.942
743		3	0	9.624	0	-10.846	0	-2144.409
744		4	0	7.361	0	-10.846	0	-2159.781
745		5	0	5.099	0	-10.846	0	-2171.057
746	3 M150	1	0	8.54	0	11.436	0	-2171.049
747		2	0	6.278	0	11.436	0	-2184.459
748		3	0	4.015	0	11.436	0	-2193.775
749		4	0	1.753	0	11.436	0	-2198.995
750		5	0	-.51	0	11.436	0	-2200.12
751	3 M151	1	0	-.51	0	-11.442	0	-2200.12
752		2	0	-2.772	0	-11.442	0	-2197.15
753		3	0	-5.035	0	-11.442	0	-2190.085
754		4	0	-7.297	0	-11.442	0	-2178.925
755		5	0	-9.56	0	-11.442	0	-2163.67
756	3 M152	1	0	-6.126	0	10.763	0	-2163.68
757		2	0	-8.389	0	10.763	0	-2150.544
758		3	0	-10.651	0	10.763	0	-2133.314
759		4	0	-12.914	0	10.763	0	-2111.988
760		5	0	-15.176	0	10.763	0	-2086.567
761	3 M153	1	0	-15.176	0	-10.934	0	-2086.566
762		2	0	-17.439	0	-10.934	0	-2057.05
763		3	0	-19.701	0	-10.934	0	-2023.438
764		4	0	-21.964	0	-10.934	0	-1985.732
765		5	0	-24.226	0	-10.934	0	-1943.931
766	3 M154	1	0	-21.081	0	8.986	0	-1943.971
767		2	0	-23.344	0	8.986	0	-1903.767
768		3	0	-25.606	0	8.986	0	-1859.467
769		4	0	-27.869	0	8.986	0	-1811.072
770		5	0	-30.131	0	8.986	0	-1758.582
771	3 M155	1	0	-30.131	0	-9.301	0	-1758.581
772		2	0	-32.394	0	-9.301	0	-1701.996
773		3	0	-34.656	0	-9.301	0	-1641.316
774		4	0	-36.919	0	-9.301	0	-1576.541
775		5	0	-39.181	0	-9.301	0	-1507.67
776	3 M156	1	0	-36.846	0	6.071	0	-1507.771
777		2	0	-39.108	0	6.071	0	-1439.033
778		3	0	-41.371	0	6.071	0	-1366.2
779		4	0	-43.633	0	6.071	0	-1289.271

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
780		5	0	-45.896	0	6.071	0	-1208.248
781	3 M157	1	0	-45.896	0	-6.493	0	-1208.245
782		2	0	-48.158	0	-6.493	0	-1123.127
783		3	0	-50.421	0	-6.493	0	-1033.913
784		4	0	-52.683	0	-6.493	0	-940.604
785		5	0	-54.946	0	-6.493	0	-843.2
786	3 M158	1	0	-54.117	0	1.812	0	-843.367
787		2	0	-55.768	0	1.812	0	-770.786
788		3	0	-57.419	0	1.812	0	-696.022
789		4	0	-59.071	0	1.812	0	-619.078
790		5	0	-60.722	0	1.812	0	-539.951
791	3 M159	1	0	-60.722	0	-2.286	0	-539.949
792		2	0	-62.373	0	-2.286	0	-458.642
793		3	0	-64.025	0	-2.286	0	-375.153
794		4	0	-65.676	0	-2.286	0	-289.482
795		5	0	-67.327	0	-2.286	0	-201.63
796	3 M160	1	0	-67.925	0	0	0	-201.853
797		2	0	-68.829	0	0	0	-152.372
798		3	0	-69.734	0	0	0	-102.236
799		4	0	-70.639	0	0	0	-51.445
800		5	0	-71.543	0	0	0	0
801	3 M161	1	0	69.039	0	0	0	0
802		2	0	68.142	0	0	0	-49.214
803		3	0	67.245	0	0	0	-97.784
804		4	0	66.348	0	0	0	-145.711
805		5	0	65.451	0	0	0	-192.994
806	3 M162	1	0	64.995	0	2.517	0	-192.769
807		2	0	63.201	0	2.517	0	-284.75
808		3	0	61.407	0	2.517	0	-374.157
809		4	0	59.614	0	2.517	0	-460.989
810		5	0	57.82	0	2.517	0	-545.248
811	3 M163	1	0	57.82	0	-2.019	0	-545.25
812		2	0	56.026	0	-2.019	0	-626.935
813		3	0	54.232	0	-2.019	0	-706.045
814		4	0	52.439	0	-2.019	0	-782.582
815		5	0	50.645	0	-2.019	0	-856.544
816	3 M164	1	0	51.896	0	6.438	0	-856.376
817		2	0	49.654	0	6.438	0	-947.453
818		3	0	47.411	0	6.438	0	-1034.508
819		4	0	45.169	0	6.438	0	-1117.542
820		5	0	42.927	0	6.438	0	-1196.553
821	3 M165	1	0	42.927	0	-6.004	0	-1196.555
822		2	0	40.685	0	-6.004	0	-1271.545
823		3	0	38.443	0	-6.004	0	-1342.512
824		4	0	36.2	0	-6.004	0	-1409.458
825		5	0	33.958	0	-6.004	0	-1472.381
826	3 M166	1	0	36.67	0	9.014	0	-1472.27
827		2	0	34.428	0	9.014	0	-1536.037
828		3	0	32.186	0	9.014	0	-1595.782
829		4	0	29.944	0	9.014	0	-1651.505
830		5	0	27.702	0	9.014	0	-1703.206
831	3 M167	1	0	27.702	0	-8.698	0	-1703.207
832		2	0	25.459	0	-8.698	0	-1750.886
833		3	0	23.217	0	-8.698	0	-1794.543
834		4	0	20.975	0	-8.698	0	-1834.178
835		5	0	18.733	0	-8.698	0	-1869.791
836	3 M168	1	0	22.368	0	10.471	0	-1869.736

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
837		2	0	20.126	0	10.471	0	-1907.848
838		3	0	17.884	0	10.471	0	-1941.938
839		4	0	15.642	0	10.471	0	-1972.007
840		5	0	13.4	0	10.471	0	-1998.053
841	3 M169	1	0	13.4	0	-10.307	0	-1998.054
842		2	0	11.157	0	-10.307	0	-2020.078
843		3	0	8.915	0	-10.307	0	-2038.081
844		4	0	6.673	0	-10.307	0	-2052.061
845		5	0	4.431	0	-10.307	0	-2062.02
846	3 M170	1	0	8.488	0	10.867	0	-2062.004
847		2	0	6.246	0	10.867	0	-2075.218
848		3	0	4.003	0	10.867	0	-2084.411
849		4	0	1.761	0	10.867	0	-2089.581
850		5	0	-4.81	0	10.867	0	-2090.729
851	3 M171	1	0	-4.81	0	-10.874	0	-2090.729
852		2	0	-2.723	0	-10.874	0	-2087.856
853		3	0	-4.965	0	-10.874	0	-2080.96
854		4	0	-7.207	0	-10.874	0	-2070.043
855		5	0	-9.45	0	-10.874	0	-2055.103
856	3 M172	1	0	-5.406	0	10.229	0	-2055.122
857		2	0	-7.649	0	10.229	0	-2043.413
858		3	0	-9.891	0	10.229	0	-2027.682
859		4	0	-12.133	0	10.229	0	-2007.929
860		5	0	-14.375	0	10.229	0	-1984.155
861	3 M173	1	0	-14.375	0	-10.404	0	-1984.154
862		2	0	-16.617	0	-10.404	0	-1956.357
863		3	0	-18.86	0	-10.404	0	-1924.539
864		4	0	-21.102	0	-10.404	0	-1888.698
865		5	0	-23.344	0	-10.404	0	-1848.836
866	3 M174	1	0	-19.755	0	8.546	0	-1848.895
867		2	0	-21.998	0	8.546	0	-1811.448
868		3	0	-24.24	0	8.546	0	-1769.978
869		4	0	-26.482	0	8.546	0	-1724.487
870		5	0	-28.724	0	8.546	0	-1674.974
871	3 M175	1	0	-28.724	0	-8.872	0	-1674.973
872		2	0	-30.966	0	-8.872	0	-1621.438
873		3	0	-33.208	0	-8.872	0	-1563.881
874		4	0	-35.451	0	-8.872	0	-1502.303
875		5	0	-37.693	0	-8.872	0	-1436.702
876	3 M176	1	0	-35.075	0	5.775	0	-1436.818
877		2	0	-37.317	0	5.775	0	-1371.891
878		3	0	-39.559	0	5.775	0	-1302.942
879		4	0	-41.802	0	5.775	0	-1229.971
880		5	0	-44.044	0	5.775	0	-1152.978
881	3 M177	1	0	-44.044	0	-6.215	0	-1152.976
882		2	0	-46.286	0	-6.215	0	-1071.961
883		3	0	-48.528	0	-6.215	0	-986.925
884		4	0	-50.77	0	-6.215	0	-897.866
885		5	0	-53.013	0	-6.215	0	-804.786
886	3 M178	1	0	-51.912	0	1.708	0	-804.958
887		2	0	-53.549	0	1.708	0	-735.923
888		3	0	-55.185	0	1.708	0	-664.746
889		4	0	-56.822	0	1.708	0	-591.426
890		5	0	-58.458	0	1.708	0	-515.964
891	3 M179	1	0	-58.458	0	-2.208	0	-515.962
892		2	0	-60.095	0	-2.208	0	-438.357
893		3	0	-61.731	0	-2.208	0	-358.61

Member Section Forces (By Combination) (Continued)

LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
894		4	0	-63.368	0	-2.208	0	-276.721
895		5	0	-65.004	0	-2.208	0	-192.689
896	3 M180	1	0	-65.456	0	0	0	-192.913
897		2	0	-66.352	0	0	0	-145.649
898		3	0	-67.249	0	0	0	-97.742
899		4	0	-68.145	0	0	0	-49.193
900		5	0	-69.042	0	0	0	0
901	3 M181	1	0	64.427	0	0	0	0
902		2	0	63.638	0	0	0	-45.528
903		3	0	62.849	0	0	0	-90.494
904		4	0	62.06	0	0	0	-134.9
905		5	0	61.27	0	0	0	-178.744
906	3 M182	1	0	60.903	0	2.387	0	-183.427
907		2	0	59.325	0	2.387	0	-268.909
908		3	0	57.746	0	2.387	0	-352.147
909		4	0	56.168	0	2.387	0	-433.14
910		5	0	54.59	0	2.387	0	-511.889
911	3 M183	1	0	54.59	0	-1.871	0	-511.891
912		2	0	53.011	0	-1.871	0	-588.396
913		3	0	51.433	0	-1.871	0	-662.656
914		4	0	49.854	0	-1.871	0	-734.671
915		5	0	48.276	0	-1.871	0	-804.442
916	3 M184	1	0	48.412	0	6.073	0	-808.827
917		2	0	46.439	0	6.073	0	-893.125
918		3	0	44.466	0	6.073	0	-973.917
919		4	0	42.493	0	6.073	0	-1051.201
920		5	0	40.52	0	6.073	0	-1124.979
921	3 M185	1	0	40.52	0	-5.625	0	-1124.981
922		2	0	38.547	0	-5.625	0	-1195.251
923		3	0	36.574	0	-5.625	0	-1262.014
924		4	0	34.601	0	-5.625	0	-1325.27
925		5	0	32.627	0	-5.625	0	-1385.019
926	3 M186	1	0	33.933	0	8.49	0	-1388.51
927		2	0	31.96	0	8.49	0	-1447.071
928		3	0	29.986	0	8.49	0	-1502.126
929		4	0	28.013	0	8.49	0	-1553.674
930		5	0	26.04	0	8.49	0	-1601.714
931	3 M187	1	0	26.04	0	-8.166	0	-1601.716
932		2	0	24.067	0	-8.166	0	-1646.249
933		3	0	22.094	0	-8.166	0	-1687.276
934		4	0	20.121	0	-8.166	0	-1724.795
935		5	0	18.148	0	-8.166	0	-1758.807
936	3 M188	1	0	20.4	0	9.849	0	-1761.034
937		2	0	18.427	0	9.849	0	-1795.542
938		3	0	16.454	0	9.849	0	-1826.543
939		4	0	14.481	0	9.849	0	-1854.037
940		5	0	12.508	0	9.849	0	-1878.024
941	3 M189	1	0	12.508	0	-9.681	0	-1878.025
942		2	0	10.535	0	-9.681	0	-1898.505
943		3	0	8.562	0	-9.681	0	-1915.478
944		4	0	6.589	0	-9.681	0	-1928.944
945		5	0	4.616	0	-9.681	0	-1938.902
946	3 M190	1	0	7.446	0	10.211	0	-1939.634
947		2	0	5.472	0	10.211	0	-1951.115
948		3	0	3.499	0	10.211	0	-1959.088
949		4	0	1.526	0	10.211	0	-1963.555
950		5	0	-447	0	10.211	0	-1964.515

Member Section Forces (By Combination) (Continued)

	LC	Member Label	Sec	Axial[k]	y Shear[k]	z Shear[k]	Torque[k-ft]	y-y Moment[k-ft]	z-z Moment[k-ft]
951	3	M191	1	0	-447	0	-10.217	0	-1964.515
952			2	0	-2.42	0	-10.217	0	-1961.967
953			3	0	-4.393	0	-10.217	0	-1955.913
954			4	0	-6.366	0	-10.217	0	-1946.351
955			5	0	-8.339	0	-10.217	0	-1933.283
956	3	M192	1	0	-5.532	0	9.607	0	-1932.442
957			2	0	-7.506	0	9.607	0	-1920.854
958			3	0	-9.479	0	9.607	0	-1905.759
959			4	0	-11.452	0	9.607	0	-1887.158
960			5	0	-13.425	0	9.607	0	-1865.049
961	3	M193	1	0	-13.425	0	-9.787	0	-1865.048
962			2	0	-15.398	0	-9.787	0	-1839.432
963			3	0	-17.371	0	-9.787	0	-1810.309
964			4	0	-19.344	0	-9.787	0	-1777.679
965			5	0	-21.317	0	-9.787	0	-1741.542
966	3	M194	1	0	-19.124	0	8.023	0	-1739.217
967			2	0	-21.097	0	8.023	0	-1703.47
968			3	0	-23.07	0	8.023	0	-1664.217
969			4	0	-25.043	0	8.023	0	-1621.456
970			5	0	-27.016	0	8.023	0	-1575.188
971	3	M195	1	0	-27.016	0	-8.357	0	-1575.187
972			2	0	-28.989	0	-8.357	0	-1525.412
973			3	0	-30.962	0	-8.357	0	-1472.13
974			4	0	-32.935	0	-8.357	0	-1415.341
975			5	0	-34.908	0	-8.357	0	-1355.045
976	3	M196	1	0	-33.667	0	5.409	0	-1351.478
977			2	0	-35.64	0	5.409	0	-1289.882
978			3	0	-37.613	0	5.409	0	-1224.778
979			4	0	-39.586	0	5.409	0	-1156.168
980			5	0	-41.559	0	5.409	0	-1084.05
981	3	M197	1	0	-41.559	0	-5.864	0	-1084.048
982			2	0	-43.532	0	-5.864	0	-1008.424
983			3	0	-45.505	0	-5.864	0	-929.292
984			4	0	-47.478	0	-5.864	0	-846.654
985			5	0	-49.451	0	-5.864	0	-760.508
986	3	M198	1	0	-49.401	0	1.581	0	-756.078
987			2	0	-50.841	0	1.581	0	-691.055
988			3	0	-52.281	0	1.581	0	-624.163
989			4	0	-53.721	0	1.581	0	-555.403
990			5	0	-55.161	0	1.581	0	-484.775
991	3	M199	1	0	-55.161	0	-2.098	0	-484.773
992			2	0	-56.601	0	-2.098	0	-412.277
993			3	0	-58.041	0	-2.098	0	-337.913
994			4	0	-59.481	0	-2.098	0	-261.68
995			5	0	-60.921	0	-2.098	0	-183.579
996	3	M200	1	0	-61.358	0	0	0	-178.903
997			2	0	-62.146	0	0	0	-135.018
998			3	0	-62.935	0	0	0	-90.573
999			4	0	-63.724	0	0	0	-45.567
1000			5	0	-64.513	0	0	0	0